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FINAL REMEDIAL INVESTIGATION/BASELINE RISK ASSESSMENT FOR THE RAVINES AND BEACH AREA STUDY AREAS OF THE SURPLUS OPERABLE UNIT, FORT SHERIDAN, ILLINOIS

VOLUME I -- RI TEXT AND RI APPENDICES A-I

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13. ABSTRACT *(Maximum 200 words)*

This document is comprised of two separate parts: the Ravines and Beach Area Study Areas of the Surplus Operable Unit (OU) Remedial Investigation (RI) Report and the Ravines and Beach Area Study Areas of the Surplus OU Baseline Risk Assessment (BRA). The RI presents the history of the Surplus OU; its geographic, hydrogeologic, and demographic setting; and a brief discussion of the methodologies used to collect the data evaluated in the report. The report also presents the collected data, establishes their validity and usability, and then evaluates the data to establish the nature and extent of the various affected environmental media (i.e., sediment, surface water, and groundwater) in the ravines and Beach Area study areas.

The BRA evaluates the detected constituents to establish a list of constituents of potential concern (COPCs). The BRA identifies complete exposure pathways and those receptors potentially exposed to COPCs through these pathways. The BRA also evaluates whether the COPCs detected in the various environmental media in the ravines and Beach Area study areas pose a potential unacceptable risk to human health and the environment. The BRA concluded that the concentrations of COPCs in the various environmental media do not pose an unacceptable risk to human health or the environment.

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Final Remedial Investigation/Baseline Risk Assessment for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

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Executive Summary

In 1988, Fort Sheridan, Illinois was recommended to the Secretary of Defense for closure by the Commission on Base Realignment and Closure (BRAC). To support decisions regarding preparation of the property for release, the Department of the Army is implementing environmental studies and restoration activities (if needed) before property transfer. A remedial investigation/feasibility study (RI/FS) is currently being conducted for the Surplus Operable Unit (OU) at Fort Sheridan. The scope of work, as detailed in the Overall Quality Assurance Project Plan (OQAPP) [Environmental Science & Engineering, Inc. (ESE), 1995a] and the various sampling and analysis plans (SAPs) for Fort Sheridan, includes characterizing known and potential environmental problems at numerous study areas in the Surplus OU by sampling various environmental media and analyzing the samples for the presence of constituents of interest.

The overall objective of the RI/FS is to remedy unacceptable human health and environmental risks associated with the Surplus OU study area. The basic components of the RI/FS program involve a Remedial Investigation (RI), Baseline Risk Assessment (BRA), and Feasibility Study (FS). The RI Report presents the objectives, technical activities, and findings of three phases of field work at the Surplus OU. Although the RI is important in determining the degree and extent of the effects of past mission-related activities on the environment, the conclusions of the BRA drive the FS and any subsequent remediation of the study areas. The BRA defines those site constituents and exposure pathways that present a current and potential future unacceptable risk to human health and the environment. It is these constituents and pathways that will require remediation. The BRA also is crucial in developing the site-specific preliminary remediation goals protective of human health and the environment that are to be met upon completion of remedial activities.

The objectives of the Fort Sheridan RI, which encompassed three phases of field work and addressed the entire installation, were:

1. Characterize the nature and extent of mission-related constituents within and beyond the identified study areas;
2. Determine and characterize the sources of these constituents;
3. Define and characterize the potential pathways of constituent migration;
4. Identify and characterize actual and potential human and environmental receptors and assess the potential risks posed to such receptors; and
5. Gather the data necessary to support a BRA and the development, evaluation, and selection of remedial alternatives, as necessary.

Results of the investigation for several of the study areas have been presented and evaluated in previous reports (Final Landfills 3&4 OU RI/BRA Report and Final Sampling Results and Data Evaluation Report for Miscellaneous Surplus OU Study Areas). Due to the recent discovery of disposed material in the 38-Acre Parcel Fill Area, the Landfill 2/Small Arms Range North (LF2/SARN) study area has been excerpted from the Draft Surplus OU RI/BRA Report. The data collected from the LF2/SARN and 38-Acre Parcel Fill Area study areas will be presented in a subsequent Draft Final RI/BRA Report. Therefore, the ravines and Beach Area study areas RI/BRA evaluates results from the following study areas:

- Janes Ravine;
- Hutchinson Ravine; and
- Beach Area.

The portion of the Phase I field effort specific to the ravines and Beach Area study areas consisted of unexploded ordnance (UXO) sweeps at the Beach Area to clear areas for sampling. Soil borings and monitoring wells were also completed at the Beach Area during Phase I. In addition, surface water/sediment samples were collected at the Lake Michigan outfalls of Janes Ravine, Hutchinson Ravine, the Airport Drain, and a small unnamed ravine.

During the Phase II field effort, additional UXO avoidance surveys were conducted to clear areas for sampling at the Beach Area. Two soil borings were completed and two sediment samples were collected. Surface water/sediment samples were collected from Janes and Hutchinson Ravines.

During the Phase III field effort, surface water/sediment samples were collected from Janes and Hutchinson Ravines and Boles Loop Drain to support the ecological BRA. Toxicity testing and animal tissue sampling were also completed to support the ecological BRA. Sediment toxicity testing was conducted on the invertebrates *Hyalella azteca (H. azteca)* and *Lumbriculus variegatus (L. variegatus)*. Groundwater acute toxicity tests were conducted on fathead minnows [*Pimephales promelas (P. promelas)*]. The sampling and analysis program for Phase III is detailed in the Phase III SAP (ESE, 1996a).

Fort Sheridan lies along the western shore of Lake Michigan and covers an area of approximately 712 acres. The land occupied by Fort Sheridan is approximately 50 feet above Lake Michigan. The topography is relatively flat and gently sloping toward Lake Michigan. The lake side of the installation terminates in a bluff or embankment which extends the full length of the boundary and beyond. Several well developed ravines, running west to east, dissect the installation. With few exceptions, the ravines are largely undisturbed and contain trees and other natural vegetation.

The surface water drainage of Fort Sheridan as a whole is dominated by the ravines and the installation storm drain system. Surface water runoff flows either into the nearest ravine or into the installation's storm drain system; both ultimately discharge into Lake Michigan.

The composition of the unconsolidated material at the installation was determined through a review of the boring logs and field observations. This review identified the unconsolidated material at Fort Sheridan as primarily a clayey till. Small isolated intervals of sand, gravel, and/or silt were encountered in the borings advanced throughout this till. In recognition of this, the Illinois Environmental Protection Agency (IEPA) has agreed with the Final Groundwater Classification Document (GCD) (ESE, 1996b) recommendation that the groundwater at Fort Sheridan be classified as Class II according to 35 Illinois Administrative Code (IAC) 620 to 49 feet below ground surface (ft-bgs). In general, the till is a heterogeneous mixture of clay (80+ percent) with sand, gravel, and silt making up the remaining 20 percent. There are occasional fractured zones. These are most common near the ground surface in the unsaturated zone. The fractures do not appear to be ubiquitous.

The installation-wide groundwater flow is toward Lake Michigan with a significant flow component toward the ravines in areas proximal to them. Static water levels varied from 2 to 3 ft-bgs to 15 ft-bgs near the ravines or bluff. *In situ* permeability test (slug test) results indicate that the clay-rich till at Fort Sheridan is relatively impermeable with hydraulic conductivities in the 10^{-7} to 10^{-6} centimeters per second (cm/sec) range.

Background soil, sediment, surface water, and groundwater data were collected from several locations believed to be previously unaffected by Fort Sheridan mission-related activities. The background samples were collected to facilitate the development of a statistically defensible background database. This background database forms the basis for comparison with study area data to evaluate the nature and extent of affected environmental media (i.e., media containing constituents as a result of releases from mission-related activities). Upper tolerance limits (UTLs) were calculated for specific constituents detected in the background soil and groundwater at Fort Sheridan. The background comparison value for constituents not detected in the background data set is set at that constituent's method detection limit (MDL).

Janes Ravine

Janes Ravine runs west to east along the northern boundary of Fort Sheridan and may have been affected by mission-related constituents from various study areas at the installation. The ravine itself is relatively undisturbed and does not contain any obvious sources of potential contamination (e.g., filled areas). It does bound several other study areas and runoff from them may have affected the ravine.

Surface soil/sediment analytical data generally were below the maximum detected concentrations in the background data set for metals and PAHs. However, a few pesticides/herbicides were detected in some

sampling locations at concentrations above the highest concentration in the background data set. Pesticide/herbicide concentrations were the highest in the sediment sample collected near the western boundary of Fort Sheridan. This location is proximal to a golf course green area and may be affected by the golf course pesticide/herbicide management practices. Pesticide/herbicide concentrations detected in sediment samples may be related to application of these constituents during golf course maintenance activities.

PAHs were not detected above MDLs in the surface water samples collected from Janes Ravine. Arsenic (total and dissolved) and chromium (total and dissolved) were generally not detected in the surface water samples at concentrations exceeding the maximum concentrations in the background data set. Total lead and/or dissolved lead were detected in some surface water samples at concentrations moderately exceeding the highest detected concentration in the background data set. A discharge pipe from Building 117 (B117) may have been the source for lead in Janes Ravine as the highest concentrations were generally detected in the B117 surface water sample and in samples collected downstream of that sampling location. A few pesticides/herbicides were detected in two surface water samples at concentrations exceeding the maximum concentrations in the background data set. These detections may be related to pesticide/herbicide application during golf course maintenance activities.

L. variegatus was cultured in one Janes Ravine sediment sample. Arsenic was detected in the *L. variegatus* tissue from the ravine sediment sample at a concentration similar to the reference sediment tissue sample and higher than in the control sediment tissue sample. Chromium and lead were detected at higher concentrations than in the reference and control sediment tissue samples. Pesticides/herbicides were generally detected in the ravine sediment tissue sample at higher concentrations than in the reference sediment tissue sample. However, only p,p'-DDD and p,p'-DDE in the ravine sediment tissue sample were detected at higher concentrations than in the control sediment tissue sample. Whole sediment chronic toxicity tests conducted with *H. azteca* in Janes Ravine sediment did not demonstrate any adverse effects to the growth and survival of the organisms.

Hutchinson Ravine

Hutchinson Ravine runs west to east through the center of the Surplus OU of Fort Sheridan and may have been affected by mission-related constituents from various study areas at the installation. As with Janes Ravine, with the exception of the water treatment facility and LF2 in the small northern arm of Hutchinson Ravine, the ravine is relatively undisturbed and does not exhibit any obvious sources of constituents.

Sediment analytical data generally were below the maximum detected concentrations in background data set for arsenic and chromium. Lead was detected in several sediment samples at concentrations slightly exceeding the maximum concentration in the background data set. Most of the higher concentrations of lead were detected in the sediment samples collected from the north branch of the ravine that is located

just down gradient (south) of LF2/SARN. The lead detected in these sediment samples likely originated from the filled northern portion of this branch of Hutchinson Ravine.

Benzo(a)pyrene and/or total carcinogenic PAHs were detected at concentrations exceeding the maximum concentration in the background data set in sediment samples collected along the central portion of the ravine's main channel. There is no known potential mission-related source of benzo(a)pyrene or total carcinogenic PAHs to this portion of Hutchinson Ravine. In addition, some pesticides/herbicides were detected in sediment samples collected from the main channel at concentrations above the highest concentration in the background data set. The origin of pesticides/herbicides in the main channel sediment of Hutchinson Ravine is uncertain, but may be related to application during golf course or lawn maintenance activities, as several golf course holes and officer housing units are located relatively near the ravine to the north and south.

Arsenic (total and dissolved) and chromium (total and dissolved) were not detected in the Hutchinson Ravine surface water samples at concentrations exceeding the maximum concentrations in the background data set. Total lead and/or dissolved lead were detected in a few surface water samples at concentrations exceeding the highest detected concentration in the background data set. Most of the higher concentrations of lead were detected in the surface water samples collected from the north branch of the ravine that is located just downgradient (south) of LF2/SARN. The lead detected in these surface water samples likely originated from the filled northern portion of this branch of Hutchinson Ravine, now referred to as LF2, or from the SARN.

Benzo(a)pyrene and/or total carcinogenic PAHs were detected at concentrations exceeding the maximum concentration in the background data set in one surface water sample collected along the west central portion of the ravine. There is no known potential mission-related source of benzo(a)pyrene or total carcinogenic PAHs to this portion of Hutchinson Ravine. A few pesticides/herbicides were detected in surface water samples collected from the main channel of Hutchinson Ravine at concentrations exceeding the maximum concentrations in the background data set. The origin of pesticides/herbicides in the main channel surface water of Hutchinson Ravine is uncertain, but may be related to application during golf course or lawn maintenance activities, as several golf course holes and officer housing units are located relatively near the ravine to the north and south.

L. variegatus was cultured in one Hutchinson Ravine sediment sample. Arsenic was detected in the *L. variegatus* tissue from the ravine sediment sample at a concentration similar to the reference sediment tissue sample and higher than in the control sediment tissue sample. Chromium was not detected above MDLs in the ravine sediment sample. Lead was detected at a higher concentration than in the reference and control sediment tissue samples. Pesticides/herbicides were generally detected in the ravine sediment tissue sample at higher concentrations than in the reference sediment tissue sample. However, only p,p'-DDD and p,p'-DDE in the ravine sediment tissue sample were detected at higher concentrations than in

the control sediment tissue sample. Whole sediment chronic toxicity tests conducted with *H. azteca* in Hutchinson Ravine sediment did not demonstrate any adverse effects to the growth and survival of the organisms.

Beach Area

The Beach Area is located on the eastern portion of the Surplus OU, starting at the base of the bluffs along Lake Michigan to approximately 10 feet out into the lake. Available information indicated that prior activities at the study area included the possible burning of off-specification munitions. In addition, the area may have been an occasional or accidental impact area for the former trap range and artillery firing points. The Beach Area was also identified as a potential UXO area.

Given the geologically active nature of the beach, this study area was not anticipated to be a significant source of constituents of concern, even considering its interesting history of use. The three phases of investigation performed at the study area have generally confirmed that substantial levels of constituents are not present at the study area. Soil borings installed at the Beach Area indicate that the beach sediments (i.e., sand and gravel resulting from recent alluvial processes) extend to a mean depth of approximately 7.5 ft-bgs. These beach sediments overlie the native clay-rich till.

Sediment analytical data indicate that arsenic, chromium, and lead were generally detected at relatively low concentrations, albeit above their respective detected concentrations in the background beach sediment sample. Benzo(a)pyrene and total carcinogenic PAHs were generally not detected at concentrations higher than the MDLs of the background sample. A few pesticides/herbicides were detected in the Janes Ravine outfall samples. The origin of the pesticides/herbicides is unknown, but may be related to golf course activities farther up the ravine. In addition, 1,3-dinitrobenzene was detected in one lake sediment sample at a low concentration (just above the MDL). It is possible this explosive related constituent is related to the burning of off-specification munitions and/or the Beach Area's history as an impact area. The fact that this is the only detection of an explosive-related constituent in the beach sediment samples suggests that this detection may be anomalous.

As previously indicated, total arsenic, total chromium, PAHs, and pesticides/herbicides were not detected above MDLs in any of the four surface water samples collected from the ravine outfalls to Lake Michigan. Total lead was detected in surface water samples C-0690 and OD-1 at relatively low concentrations (less than three times the MDL).

L. variegatus was cultured in two beach sediment samples collected from the outfalls to Lake Michigan of Janes and Hutchinson Ravines (JRBSD06 and HRBSD06). Arsenic, chromium, and lead were detected in the *L. variegatus* tissue from the beach sediment samples at concentrations similar to those in the reference sediment tissue sample (BLDBSD01) and at higher concentrations than in the control sediment tissue sample. Most pesticides/herbicides were detected in the beach sediment tissue samples at

similar concentrations to those in the reference sediment tissue sample and at higher concentrations than in the control sediment tissue sample. However, p,p'-DDD in the beach sediment tissue samples was detected at higher concentrations than in the reference and control sediment tissue samples. In summary, elevated concentrations of constituents were generally not detected in the Beach Area media.

The BRA Report presents the results of the human health and environmental risk evaluation for the Janes Ravine, Hutchinson Ravine, and the Beach Area study areas of the Surplus OU at Fort Sheridan. The purpose of the BRA is twofold. First, the BRA provides an evaluation of the potential threat to human health and the environment associated with the release or potential release of constituents of potential concern (COPCs). The primary objective of this evaluation is to identify COPCs and exposure pathways, conduct a toxicity assessment for each COPC, conduct an exposure assessment, and characterize potential risks to human and environmental receptors. The BRA summarizes and interprets data collected during the RI to characterize the COPCs, describes constituent migration pathways, identifies potential human and environmental exposure pathways, and assesses current and future adverse effects on human health and the environment under the no action alternative. The second purpose of the BRA is to evaluate the need for a FS. This evaluation focuses on an evaluation of those potential risks greater than the acceptable range. This analysis will identify those constituents of concern and the affected media that drive the need for an FS.

The BRA report includes several major components:

- Identification of COPCs;
- Exposure assessment;
- Toxicity assessment;
- Potential risk characterization;
- Problem formulation for the ecological risk assessment;
- Exposure and ecological effects analyses; and
- Potential ecological risk characterization.

In the identification of COPCs, the available data are reviewed for each environmental medium (groundwater, surface water, sediments) at the ravines and Beach Area study areas. For constituents that may occur naturally, site-related environmental concentrations are compared to available background data to assist in the selection of COPCs.

The large number of constituents detected at the ravines and Beach Area precludes a detailed risk analysis for each constituent detected. Therefore, COPCs were identified to represent the most potentially hazardous constituents for receptors that may be exposed. Human health and environmental risks evaluated for these COPCs are expected to account for 99 percent of the total risk associated with the ravines and Beach Area. The constituents selected as final COPCs for the ravines and Beach Area study areas are presented in Table ES-1.

In the exposure assessment, the important COPC migration pathways, exposure routes, and estimated COPC intakes for human receptors are presented. The site characteristics affecting the migration of COPCs, as well as population demographics and local land/water uses, are discussed. This information is combined to develop a conceptual exposure model for the ravines and Beach Area and to select exposure pathways for detailed evaluation. The exposure pathways selected for detailed analysis are soil, sediment, and surface water.

The exposure assessment estimates the total intake of COPCs that the key receptor groups are expected to receive over various exposure periods. The four key human receptor groups include:

1. Current Recreational (a golfer); and
2. Future Recreational (a golfer or other recreational user, such as a hiker).

The current conservative linear cancer potency models that the U.S. Environmental Protection Agency (USEPA) uses in cancer risk assessments consider the expression of carcinogenic effects to be a function of cumulative dose over a lifetime of exposure. Therefore, carcinogenic exposures are calculated for adults only using time-weighted exposure durations. Noncarcinogenic exposures are calculated for both children and adults; however, exposures to children are expected to be greater because of their lower body weight. Therefore, for purposes of this analysis, exposures for a worker are calculated for an adult, whereas recreational exposures are calculated for both an adult and a child.

In the toxicity assessment, human and environmental toxicity data are presented for the COPCs. Dose-response criteria are identified for both carcinogenic and noncarcinogenic human health effects for each constituent and for each potential exposure route (i.e., oral, inhalation, dermal). The toxicity assessment also includes a technical summary of the constituents' human and environmental health effects, target organ toxicity data, quantitative toxicity criteria, and other appropriate standards and guidelines.

The risk characterization integrates the information developed in the toxicity assessment and exposure assessment. Potential carcinogenic and noncarcinogenic human health risks are quantified and presented for the COPCs.

A baseline ecological risk assessment was performed to evaluate the potential for adverse ecological effects associated with exposures to ecological COPCs (ecoCOPCs) associated with the ravines and Beach Area study areas. The objectives of the ecological risk assessment are to utilize currently available information and data regarding ecoCOPCs, ecotoxicology, and ecology to estimate the potential for

undesirable ecological effects and to provide a means of balancing and comparing potential risks associated with environmental problems. Results of the ecological risk assessment are used to:

- Determine if specific ecoCOPCs associated with the ravines and Beach Area are significantly adversely affecting ecological receptors, and, if so,
- Assist in the determination if remedial actions are necessary.

The ecological risk assessment follows the currently accepted process that consists of the following components:

- Problem formulation;
- Analysis (which includes characterization of both exposure and ecological effects); and
- Potential risk characterization.

In the problem formulation phase of the ecological risk assessment, environmental stressors are characterized, ecosystems potentially at risk are identified, and ecological effects are discussed. This information is combined along with the selection of ecological endpoints to develop a conceptual exposure model for environmental receptors of concern.

It is important to consider the fact that most of the natural habitat at Fort Sheridan has been disturbed as a result of extensive residential, commercial, and industrial development. As a result of this development, few undisturbed, distinct natural communities exist. and species diversity and densities have been reduced. The ravines, Lake Michigan shoreline and bluffs, and undeveloped areas of Fort Sheridan and the adjacent wildlife preserve provide the most habitat for wildlife species found onsite. Generalized potential exposure pathways by which terrestrial and aquatic organisms may come into contact with constituents at the ravines and Beach Area include:

- Ingestion of or dermal contact with sediment by benthic invertebrates or wildlife;
- Ingestion of or dermal contact with surface water by benthic invertebrates or wildlife; and
- Ingestion of prey.

Sediments and surface water are evaluated for the ravine and beach areas (sediments only in the littoral zone) as these media represent the most significant pathways for ecological exposure to constituents. Because some of the stressor constituents do bioaccumulate, the extent to which the ingestion of prey may be a significant pathway was evaluated after selection of constituents of potential concern to ecological receptors (ecoCOPCs) and evaluation of primary (direct) exposure to surface water and sediments. Based upon the review of potential constituent stressors, potential exposure pathways in the ravine ecosystem, and potential ecological effects, ecologically based endpoints are chosen for further evaluation.

An Assessment Endpoint is an explicit description of the ecological value to be protected. Assessment Endpoints generally have both a biological and societal value, so that scientific information and risk management goals can be linked. Assessment endpoints selected for the ravines and Beach Area include:

- Assessment Endpoint 1--adverse population effects on terrestrial wildlife (i.e., woodchucks, raccoons, shrews, and feral cats) due to ingestion of ecoCOPCs from surface water via drinking.
- Assessment Endpoint 2--adverse population effects on amphibians due to direct exposure of egg masses and larval amphibians to ecoCOPCs in surface water.
- Assessment Endpoint 3--adverse population response by aquatic invertebrates and fish to direct exposure to ecoCOPCs in surface water in the ravines and Lake Michigan, respectively
- Assessment Endpoint 4--adverse population or community effects on benthic invertebrates due to exposure to ecoCOPCs in sediments.
- Assessment Endpoint 5--adverse population effects on raccoons due to incidental ingestion of ecoCOPCs in sediments.
- Assessment Endpoint 6--adverse population effects on avian species (common snipe) due to incidental ingestion of ecoCOPCs in sediments.
- Assessment Endpoint 7--adverse population effects on terrestrial and aquatic species due to bioaccumulation of ecoCOPCs in the food chain.

Adverse population effects can be expected if mortality, reproductive impairment, or significant growth reductions occur. Indirect effects may also occur, but are not as readily evaluated with the data available. Changes in populations may also cause significant changes in community and ecosystem structure. Fundamental changes in populations are ecologically relevant, and can generally be inferred from acute or chronic ecotoxicity benchmarks related to mortality, reproductive impairment, and (in some cases) growth reduction. Measurement endpoints that correspond to the assessment endpoints include the following:

- Measurement Endpoint 1--drinking water benchmarks for ecoCOPCs associated with no observed adverse effect levels (NOAELS) or lowest observed adverse effect levels (LOAELs) for mortality or reproductive effects (if available).
- Measurement Endpoint 2--aquatic ecotoxicity benchmark values for ecoCOPCs (laboratory or field studies) for impairment of amphibian reproductive success.
- Measurement Endpoint 3--results of site-specific fathead minnow bioassays using groundwater samples and aquatic invertebrate ecotoxicity benchmark values for ecoCOPCs.
- Measurement Endpoint 4--results of site-specific sediment chronic bioassays using sediments from Janes and Hutchinson Ravines and the Beach Area and sediment ecotoxicity benchmark values for ecoCOPCs in Lake Michigan sediment.
- Measurement Endpoint 5--dietary benchmarks for mammals associated with NOAELs or LOAELs (if available) and adjusted for incidental sediment ingestion of ecoCOPCs.
- Measurement Endpoint 6--dietary benchmarks for avian species associated with NOAELs or LOAELs (if available) and adjusted for incidental sediment ingestion of ecoCOPCs.

- Measurement Endpoint 7--dietary benchmarks associated with NOAELS or LOAELs (if available) and adjusted or ingestion of ecoCOPCs bioaccumulated in prey by avian species or terrestrial mammals, and direct measurement of body burdens in *L. variegatus*.

The number and kind of aquatic and terrestrial species that are potentially exposed are large because of the diverse nature of the habitats at Fort Sheridan. It is not feasible to consider each of these exposure pathways for each species observed on the installation for each constituent detected in each exposure medium at the ravines and Beach Area. Instead, representative receptors are selected for further evaluation. These representative receptors are not only typical of the species observed on the installation, but are also likely to be exposed to mission-related constituents through these various exposure pathways.

The potential exposure pathways and receptors that have been selected for quantitative analysis in the ecological risk assessment for the ravines and Beach Area are:

- Exposure to groundwater by fish (fathead minnow);
- Exposure to sediments by benthic invertebrates;
- Ingestion of sediments by raccoons and snipe;
- Ingestion of surface water from the ravines by raccoons, woodchucks, shrews, and feral cats;
- Food chain bioaccumulation for racoons and snipe ingesting benthic invertebrates; and
- Exposure to surface water by amphibians and aquatic invertebrates.

The summary of potential human health risks associated with estimated exposures at the ravines and Beach Area is presented for each exposure scenario (i.e., current recreational and future recreational) in Table ES-2. No potential unacceptable human health risks have been determined for the current recreational and future recreational exposure scenarios for the ravines and Beach Area study areas. The uncertainty analysis has demonstrated that some of the risk calculations are conservative and may have been overestimated by at least one order of magnitude. The results of this risk analysis should be viewed in light of the information presented in the uncertainty analysis.

The summary of potential human health risks associated with background exposures is presented in Table ES-3. No potential unacceptable human health risks have been determined for the current recreational and future recreational exposure scenarios. A comparison of the potential risks associated with each study area to the background risks presented in Table ES-3 suggests that a portion of the potential risks associated with the ravines and Beach Area may be due to background conditions. As discussed previously, the results of this risk analysis should be viewed in the light of the uncertainty analysis.

A summary of the ecological risk analysis is presented in Table ES-4. Adverse effects to wildlife, including amphibians and aquatic invertebrates, are not expected from potential exposure to ecoCOPCs present in surface water or sediments at Janes or Hutchinson Ravines. Additionally, no adverse effects

are expected for ingestion of prey species from the ravine areas by the raccoon. Adverse effects from ingestion of ecoCOPCs detected in sediment and surface water are not anticipated for wildlife foraging along the Beach Area. It should be noted that EQs for aluminum and arsenic for the raccoon ingesting sediment while foraging did exceed one. However, when the home range for the mammal is considered in comparison to the forage area provided at the Beach Area, the EQs are considerably less than one, indicating that adverse effects are not likely to occur. Similarly, for snipes ingesting *L. variegatus* worms from the Beach Area, some potential exists that individuals may be affected by ingestion of chromium and manganese contained in the worm tissue. However, considering the home range of this avian species and similar background concentrations of manganese, there is little potential for significant exposure and adverse effects to occur. No adverse effects are anticipated for aquatic invertebrates that may be present in Beach Area surface water. EQs for the two Lake Michigan sediment constituents indicate that adverse effects on benthic invertebrates may occur. However, consideration of additional sediment data indicate that the detection of 1,3-dinitrobenzene may be an anomaly and that aluminum concentrations associated with Surplus OU Lake Michigan sediments are less than those found elsewhere in the Lake. Although a conclusive determination of the effects to benthic invertebrates from sediment ecoCOPCs cannot be made, it is anticipated that adverse effects, as a result of the constituents present in the lake sediments, are not expected.

Table ES-1. COPCs for the Ravines and Beach Area Study Areas

Study Area/ Medium	Human Health COPCs	EcoCOPCs	
Janes Ravine			
Sediment	Benzo(a)anthracene	Chlordane, total	Methoxychlor
	Benzo(a)pyrene	DDD, p,p'-	Methylnaphthalene, 2-
	Benzo(b)fluoranthene	DDE, p,p'-	Silver
	Benzo(k)fluoranthene	DDT, p,p'-	
	Chlordane	Hexachlorocyclohexane, gamma- (Lindane)	
	Chrysene		
	DDD, p,p'-		
	DDT, p,p'-		
	Dibenzo(a,h)anthracene		
	Indeno(1,2,3-cd)pyrene		
Surface Water	Manganese	DDD, p,p'	Manganese
		DDT, p,p'-	Sulfate
Hutchinson Ravine			
Sediment	Benzo(a)anthracene	2,4,5-T	DDD, p,p'-
	Benzo(a)pyrene	Acenaphthene	DDE, p,p'-
	Benzo(b)fluoranthene	Acenaphthylene	DDT, p,p'-
	Benzo(k)fluoranthene	Aldrin	Dibenzo(a,h)anthracene
	Chlordane	Anthracene	Endrin
	Chrysene	Benzo(a)anthracene	Fluoranthene
	DDD, p,p'-	Benzo(a)pyrene	Fluorene
	Dibenzo(a,h)anthracene	Benzo(b)fluoranthene	Hexachlorocyclohexane, gamma- (Lindane)
	Indeno(1,2,3-cd)pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene
		Benzo(k)fluoranthene	Mercury
		Cadmium	Methylnaphthalene, 2-
		Carbazole	Naphthalene
		Chlordane, alpha-	Phenanthrene
		Chlordane, gamma-	Pyrene
		Chlordane, total	Silver
		Chrysene	
		Cyanide, total	
Surface Water	Benzo(a)pyrene	Anthracene	Decachlorobiphenyl
	Benzo(k)fluoranthene	Benzo(a)pyrene	Manganese
	Bis(2-ethylhexyl)phthalate	Cyanide	Pyrene
	Chloromethane	DDD, p,p'-	Sulfate
	Manganese	DDE, p,p'-	Zinc
	Sulfate	DDT, p,p'-	

Table ES-1. COPCs for the Ravines and Beach Area Study Areas

Study Area/ Medium	Human Health COPCs	EcoCOPCs	
Beach Area			
Sediment	Arsenic	Aluminum	Hexachlorocyclohexane,
	Beryllium	Antimony	gamma- (Lindane)
	Manganese	Arsenic	Manganese
		Chlordane, total	Nickel
		DDD, p,p'-	Zinc
		DDE, p,p'-	
		DDT, p,p'-	
Surface Water	Chloroform	Barium	Sulfate
	Manganese	Manganese	
	Sulfate		
Lake Michigan Sediment			Aluminum
			Dinitrobenzene, 1-3-
Groundwater		Amino-2,6-DNT, 4-	DDT, p,p'-
		Barium	Endosulfan sulfate
		Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene
		Benzo(a)pyrene	Lead
		Benzo(g,h,i)perylene	Manganese
		Benzo(k)fluoranthene	Mercury
		Cobalt	Methylnaphthalene, 2-
		Copper	Pyrene
		DDD, p,p'-	Vanadium
			Zinc

COPC = constituent of potential concern.

Source: QST, 1998.

Table ES-2. Summary of Potential Human Health Risks*

Exposure Scenario	Total Noncarcinogenic Hazard Index	Total Carcinogenic Risk†
Janes Ravine		
Current Recreational	6E-03 to 3E-02	4E-07 to 2E-06
Future Recreational		
Adult	1E-02 to 6E-02	1E-06 to 6E-06
Child	4E-02 to 2E-01	†
Hutchinson Ravine		
Current Recreational	4E-03 to 2E-02	4E-07 to 2E-06
Future Recreational		
Adult	8E-03 to 4E-02	5E-06 to 3E-05
Child	2E-02 to 1E-01	†
Beach Area		
Future Recreational		
Adult	6E-03 to 3E-02	1E-06 to 5E-06
Child	3E-02 to 1E-01	†

RAE = reasonable average exposure.
RME = reasonable maximum exposure.

* The range of risks provided are reflective of estimated exposures to the RAE and RME, respectively.

† Lifetime cancer risk estimate. Childhood cancer risks are included in values presented for the adult.

Source: QST, 1998.

Table ES-3. Summary of Potential Human Health Risks for Background*

Exposure Scenario	Total Noncarcinogenic Hazard Index	Total Carcinogenic Risk †
Janes Ravine		
Current Recreational	1E-04 to 6E-04	3E-08 to 2E-07
Future Recreational		
Adult	4E-04 to 2E-03	8E-07 to 4E-06
Child	8E-03 to 4E-03	†
Hutchinson Ravine		
Current Recreational	8E-04 to 4E-03	1E-07 to 5E-07
Future Recreational		
Adult	4E-03 to 2E-02	1E-06 to 7E-06
Child	9E-03 to 4E-02	†
Beach Area		
Future Recreational		
Adult	2E-03 to 1E-02	3E-07 to 1E-06
Child	1E-02 to 6E-02	†

RAE = reasonable average exposure.
RME = reasonable maximum exposure.

* The range of risks provided are reflective of estimated exposures to the RAE and RME, respectively.
† Lifetime cancer risk estimate. Childhood cancer risks are included in values presented for the adult.

Source: QST, 1998.

Table ES-4. Summary of Potential Risks to Ecological Receptors

Exposure Medium	Receptor Type	Number of Time EQ>1	EcoCOPCs with EQ>1	Significance
Janes Ravine				
Sediment	Raccoon	0/8		
Sediment Bioassays	*Lumbriculus* and *Hyalella*			Results indicate sediments not chronically toxic to benthic invertebrates.
Surface Water	Shrew	0/3		
Surface Water	Feral Cat	0/3		
Surface Water	Woodchuck	0/3		
Surface Water	Raccoon	0/3		
Hutchinson Ravine				
Sediment	Raccoon	0/33		
Sediment Bioassays	*Lumbriculus* and *Hyalella*			Results indicate sediments not chronically toxic to benthic invertebrates.
Surface Water	Shrew	0/10		
Surface Water	Feral Cat	0/10		
Surface Water	Woodchuck	0/10		
Surface Water	Raccoon	0/10		
Surface Water	Amphibians	0/3		
Surface Water	Aq. Invertebrates	0/10		
Lumbriculus	Raccoons	0/11		
Beach Area				
Sediment	Raccoon	2/11	Aluminum Arsenic	Potential for adverse effects however, consideration of the animals home range significantly reduces the potential for exposure therefore no adverse effects are anticipated.
Sediment	Snipes	0/11		
Sediment Bioassays	*Lumbriculus*			Results indicate sediments not chronically toxic to benthic invertebrates.
Surface Water	Shrew	0/2		
Surface Water	Feral Cat	0/2		
Surface Water	Woodchuck	0/2		

Table ES-4. Summary of Potential Risks to Ecological Receptors

Exposure Medium	Receptor Type	Number of Time EQ>1	EcoCOPCs with EQ>1	Significance
Beach Area (cont.)				
Surface Water	Raccoon	0/2		
Lumbriculus	Snipes	2/11	Chromium, total	Some potential for adverse effects but consideration of the home range should reduce the potential for exposure and any adverse effects.. Additionally, consideration of background concentrations of manganese in prey do not indicate adverse effects
			Manganese	
Surface Water	Aq. Invertebrates	0/3		
Lumbriculus	Raccoons	0/11		
Lake Michigan				
Surface Water Bioassays	Fathead Minnows			Results indicate groundwater not acutely toxic to fish species.

Source: QST, 1998.

Table of Contents

Section Page

1.0 Introduction 1-1
1.1 Site History 1-2
1.2 Investigative Areas 1-3
1.3 Project Objectives 1-7

2.0 Setting and Physical Characteristics 2-1
2.1 Site Location and Physiography 2-1
2.2 Demographics and Land Use 2-2
2.3 Climatology 2-2
2.4 Surface Water Hydrology 2-4
2.5 Geology 2-4
2.5.1 Regional Geology 2-4
2.5.2 Site Geology 2-5
2.6 Soils 2-5
2.7 Hydrogeology 2-6

3.0 Study Area Investigative Methods 3-1
3.1 Records Research 3-1
3.2 UXO Avoidance Surveys 3-1
3.3 Surface Soil Sampling 3-2
3.4 Soil Borings 3-3
3.5 Permanent Monitoring Well Construction and Sampling 3-4
3.6 Surface Water and Sediment Sampling 3-5
3.7 *In Situ* Permeability Tests 3-6
3.8 Decontamination Procedures 3-8
3.9 Horizontal Coordinate and Vertical Elevation Survey 3-9
3.10 Toxicity Testing 3-9
3.10.1 Whole Sediment Chronic Toxicity Tests 3-10
3.10.2 Flow-Through Whole Sediment Bioaccumulation Tests 3-10
3.10.3 Fathead Minnows 3-10
3.11 Investigative Derived Waste (IDW) 3-11
3.11.1 Solid IDW 3-11
3.11.2 Liquid IDW 3-11

4.0 Data Evaluation Baseline 4-1
4.1 Quality Control Samples 4-1
4.1.1 Rinsate and Trip Blanks 4-1
4.1.2 Water Supply Samples 4-2
4.1.3 Duplicate Samples 4-4
4.1.4 Data Validation and Phase I Data Usability Evaluation 4-4
4.1.5 Method Detection Limits 4-5
4.2 Background Baseline 4-5
4.2.1 Soil, Groundwater, Sediment, and Surface Water 4-6
4.2.2 Toxicity Testing Surface Water and Sediment Background 4-6

Table of Contents (continued)

4.3 Evaluation of *L. variegatus* Data 4-8
4.3.1 Semivolatiles 4-8
4.3.2 Explosives 4-8
4.3.3 Pesticides 4-9

5.0 Study Area Specific Findings 5-1
5.1 Janes Ravine Study Area 5-1
5.1.1 Surface Soil 5-2
5.1.2 Sediment 5-2
5.1.3 Surface Water 5-3
5.2 Hutchinson Ravine 5-3
5.2.1 Sediment 5-4
5.2.2 Surface Water 5-6
5.3 Beach Area 5-6
5.3.1 Sediment 5-7
5.3.2 Surface Water 5-9
5.3.3 Groundwater 5-9
5.4 Ecological Sampling and Toxicity Tests 5-10
5.4.1 Whole Sediment Chronic Toxicity Tests 5-10
5.4.2 Flow-Through Whole Sediment Bioaccumulation Tests 5-10
5.4.3 Acute Toxicity Tests of Fathead Minnows Exposed to Groundwater 5-11

6.0 Data Evaluation/Nature and Extent 6-1
6.1 Janes Ravine 6-1
6.1.1 Surface Soil 6-2
6.1.2 Sediment 6-2
6.1.3 Surface Water 6-3
6.2 Hutchinson Ravine 6-4
6.2.1 Sediment 6-4
6.2.2 Surface Water 6-5
6.3 Beach Area 6-6
6.3.1 Sediment 6-6
6.3.2 Surface Water 6-8
6.3.3 Groundwater 6-8
6.4 *L. variegatus* Tissue 6-10
6.4.1 Ravine Sediment Tissue 6-10
6.4.2 Beach Sediment Tissue 6-10

7.0 Investigative Summary 7-1
7.1 Janes Ravine Study Area 7-1
7.2 Hutchinson Ravine Study Area 7-2
7.3 Beach Study Area 7-3

8.0 References 8-1

Table of Contents (continued)

List of Tables

Table 2-1	Population Demographics for Communities Surrounding Fort Sheridan	2-9
Table 2-2	Normal Temperature and Precipitation for Waukegan, Illinois (1961-1990)	2-10
Table 4-1	Detection Summary of Constituents in Ravines and Beach Area Rinse Blanks	4-11
Table 4-2	Detection Summary of Constituents in Waster Supply Samples	4-14
Table 4-3	Summary of Duplicate Analytes from the Ravines and Beach Area Study Areas with Greater Than 50 Percent Variance	4-15
Table 4-4	Detection Summary of Constituents in Toxicity Test Background Sediment Samples	4-21
Table 4-5	Detection Summary of Constituents in Toxicity Test Background Surface Water Samples	4-22
Table 5-1	Detection Summary of Inorganic Constituents in Janes Ravine Surface Soil Samples	5-13
Table 5-2	Detection Summary of Organic Constituents in Janes Ravine Surface Soil Samples	5-14
Table 5-3	Detection Summary of Inorganic Constituents in Janes Ravine Sediment Samples	5-15
Table 5-4	Detection Summary of Organic Constituents in Janes Ravine Sediment Samples	5-16
Table 5-5	Detection Summary of Total Inorganic Constituents in Janes Ravine Surface Water Samples	5-18
Table 5-6	Detection Summary of Dissolved Inorganic Constituents in Janes Ravine Surface Water Samples	5-20
Table 5-7	Detection Summary of Organic Constituents in Janes Ravine Surface Water Samples	5-21
Table 5-8	Janes Ravine Water Quality Field Measurements	5-23
Table 5-9	Detection Summary of Inorganic Constituents in Hutchinson Ravine Sediment Samples	5-24

Table of Contents (continued)

Table 5-10 Detection Summary of Organic Constituents in Hutchinson Ravine Sediment Samples 5-26

Table 5-11 Detection Summary of Total Inorganic Constituents in Hutchinson Ravine Surface Water Samples 5-32

Table 5-12 Detection Summary of Dissolved Inorganic Constituents in Hutchinson Ravine Surface Water Samples 5-35

Table 5-13 Detection Summary of Organic Constituents in Hutchinson Ravine Surface Water Samples 5-37

Table 5-14 Hutchinson Ravine Water Quality Field Measurements 5-40

Table 5-15 Detection Summary of Inorganic Constituents in Beach Area Sediment Samples 5-41

Table 5-16 Detection Summary of Organic Constituents in Beach Area Sediment Samples . . 5-43

Table 5-17 Detection Summary of Constituents in Beach Area Surface Water Samples 5-49

Table 5-18 Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples 5-50

Table 5-19 Detection Summary of Dissolved Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples 5-74

Table 5-20 Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples 5-81

Table 5-21 Survival and Growth of *Hyalella azteca* Exposed to Whole Sediments from the Surplus Operable Unit, Fort Sheridan, Illinois During a 28-Day Chronic Toxicity Test 5-98

Table 5-22 Detection Summary of Constituents Ravine *Lumbriculus variegatus* Tissue Samples 5-100

Table 5-23 Detection Summary of Constituents in Beach *Lumbriculus variegatus* Tissue Samples 5-101

Table of Contents (continued)

List of Figures

Figure 1-1 Site Location 1-9

Figure 1-2 Fort Sheridan Operable Units 1-10

Figure 2-1 Quaternary Geology of the Fort Sheridan Area 2-11

Figure 2-2 Cross Section Locations 2-12

Figure 2-3 Cross Section A-A' 2-13

Figure 2-4 Cross Section B-B' 2-14

Figure 5-1 Ravines and Beach Area Study Area Locations 5-103

Figure 5-2 Janes and Hutchinson Ravines Sampling Locations 5-104

Figure 5-3 Beach Area Sampling Locations 5-105

Figure 5-4 Monitoring Well Locations 5-106

Figure 5-5 *Hyalella azteca* Sediment Sampling Locations 5-107

Figure 5-6 *Lumbriculus variegatus* Sediment Sampling Locations 5-108

Figure 5-7 Background Groundwater Sampling Locations for Acute Toxicity tests of Fathead Minnow 5-109

Figure 6-1 Surface Soil and Sediment Analytical Results for Janes Ravine 6-13

Figure 6-2 Surface Water Analytical Results for Janes Ravine 6-14

Figure 6-3 Sediment Analytical Results for Hutchinson Ravine 6-15

Figure 6-4 Surface Water Analytical Results for Hutchinson Ravine 6-16

Figure 6-5 Sediment Analytical Results at the Beach Area 6-17

Figure 6-6 Groundwater Analytical Results at the Beach Area 6-18

Table of Contents (continued)

List of Appendices

Appendix A	Daily Weather Summaries
Appendix B	Soil Boring, Test Pit Logs, and Monitoring Well Diagrams
Appendix C	Interpretive Groundwater Elevation Contours and Piezometer Location Map
Appendix D	Phase II Monitoring Well Depth-to-Water Measurements
Appendix E	Slug/Baildown Test Data, Field Methods, Analysis, and Interpretation
Appendix F	UXO Avoidance Services Letter Report
Appendix G	Field Photography Log Sheets
Appendix H	Toxicity Testing Reports
Appendix I	Level III IRDMIS Data--Quality Assurance/Quality Control
Appendix J	Phase I Data Usability Evaluation
Appendix K	Final Data Validation Report Summaries
Appendix L	Calculation of Theoretical Uptake of Explosives Related Compounds in *L. variegatus*
Appendix M	Level III IRDMIS Data -- Sediment Samples
Appendix N	Level III IRDMIS Data -- Surface Water Samples
Appendix O	Level III IRDMIS Data -- Soil Samples
Appendix P	Level III IRDMIS Data -- Groundwater Samples
Appendix Q	Level III IRDMIS Data -- *Lumbriculus variegatus*

Table of Contents (continued)

List of Acronyms and Abbreviations

ANL	Argonne National Laboratory
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
B912	Building 912
BCT	BRAC Cleanup Team
BEC	BRAC Environmental Coordinator
BRA	Baseline Risk Assessment
BRAC	Base Realignment and Closure
BSAP	background sampling and analysis plan
CERFA	Community Environmental Response Facilitation Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
cm/sec	centimeters per second
COC	chain of custody
COD	chemical oxygen demand
COPC	constituent of potential concern
CSAs	coal storage areas
°C	degrees Centigrade
°F	degrees Fahrenheit
DI	deionized
DNT	dinitrotoluene
DoD	Department of Defense
ecoCOPC	ecological constituent of potential concern
EPIC	Environmental Photographic Interpretation Center
FS	feasibility study
ft-ags	feet above ground surface
ft-bgs	feet below ground surface
ft-btoc	feet below top of casing
ft-ft	foot per foot
FS	feasibility study
GC	gas chromatography
GCD	Groundwater Classification Document
HASP	health and safety plan
HFA	Human Factors Applications, Inc.
HPLC	high performance liquid chromatography
IAC	Illinois Administrative Code
ID	internal diameter
IDW	investigative derived waste
IEPA	Illinois EPA
IRDMIS	Installation Restoration Data Management Information System
JPC	Joint Planning Commission
LF	landfill
LOAELs	lowest-observed-adverse-effects-levels
MDL	method detection limit

Table of Contents (continued)

mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mmhos/cm	millimhos per centimeter
μg/L	micrograms per liter
MS/MSD	matrix spike/matrix spike duplicate
NCDC	National Climatic Data Center
ND	non-detect
NGVD	nation geodetic vertical datum
NOAA	National Oceanic and Atmospheric Administration
NOAELs	no observed adverse effect levels
NSSD	North Shore Sanitary District
NTUs	nephelometric turbidity units
OQAPP	Overall Quality Assurance Project Plan
OU	Operable Unit
OVM	organic vapor meter
P38	38-Acre Parcel
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyls
PID	photoionization detector
POL	petroleum, oils, and lubricants
PPE	personal protective equipment
ppm	parts per million
psi	pounds per square inch
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance/quality control
QC	quality control
RDX	Royal Demolition Explosives, Hexahydro-1,3,5-trinitro-1,3,5-triazine
RI	remedial investigation
RI/BRA	Remedial Investigation/Baseline Risk Assessment
RI/FS	Remedial Investigation/Feasibility Study
RPD	relative percent difference
SAP	sampling and analysis plan
SARA	Superfund Amendments and Reauthorization Act
SARN	Small Arms Range North
SLPs	standard landfill parameters
SVOCs	semi-volatile organic compounds
TEP	Technical Evaluation Plan
TRPH	total recoverable petroleum hydrocarbons
USACE	U.S. Army Corps of Engineers
USAEC	U.S. Army Environmental Center
USATHAMA	U.S. Army Toxic and Hazardous Materials Agency
USDA	United States Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USTs	underground storage tanks

Table of Contents (continued)

UTLs	upper tolerance limits
UV	ultraviolet
UXO	unexploded ordnance
VES	Vehicle and Equipment Storage Area
VOC	volatile organic compound
<	less than
>	greater than

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1.0 Introduction

In 1988, Fort Sheridan, Illinois was recommended to the Secretary of Defense for closure by the Commission on Base Realignment and Closure (BRAC). To support decisions regarding preparation of the property for release, the Department of the Army is implementing environmental studies and restoration activities (if needed) before property transfer. The U.S. Army Environmental Center (USAEC), as part of the Army staff, is assisting Fort Sheridan in this work. Under Contract Number DAAA15-90-D-0017, Delivery Order 2, QST Environmental Inc. (QST) is conducting a remedial investigation/feasibility study (RI/FS) for the Surplus Operable Unit (OU) at Fort Sheridan for the USAEC. The scope of work, as detailed in the Overall Quality Assurance Project Plan (OQAPP) [Environmental Science & Engineering, Inc. (ESE), 1995a] and the various sampling and analysis plans (SAPs) for Fort Sheridan, includes characterizing known and potential environmental problems at numerous study areas in the Surplus OU by sampling various environmental media and analyzing the samples for the presence of constituents of interest. The study areas addressed in this report were listed as investigation areas in the scope of work. These study areas are Janes Ravine, Hutchinson Ravine, and the Beach Area which encompasses the Lake Michigan shoreline between Hutchinson and Janes Ravines. The Reported Ammunition Burning Area and the impact area of the Former Trap Range are included in the Beach Area.

The overall objective of the RI/FS is to remedy unacceptable human health and environmental risks associated with the Surplus OU study areas. The basic components of the RI/FS program involve a Remedial Investigation (RI), Baseline Risk Assessment (BRA), and Feasibility Study (FS).

The RI/FS process is interactive. Data are obtained in the RI to delineate and quantify the degree and extent of site-related constituents in various environmental media and provide information for the screening and development of remedial measures. The data collected during the RI are also used to support the BRA. Remedial measures that address the potential unacceptable risks identified in the BRA are then presented and evaluated in the FS.

This RI Report presents the objectives, technical activities, and findings of the three phases of RI field work conducted at the following Surplus OU study areas: Janes Ravine, Hutchinson Ravine, and the Beach Area. The RI activities were conducted in consultation with representatives from the U.S. Environmental Protection Agency (USEPA) and Illinois EPA (IEPA). These two agency representatives, together with the Fort Sheridan BRAC Environmental Coordinator (BEC), comprise the BRAC Cleanup Team (BCT).

Although the RI is important in determining the degree and extent of the effects of past mission-related activities on the environment, the conclusions of the BRA drive the FS and any subsequent remediation

of the study areas. The BRA defines those site constituents and exposure pathways that present a current and potential future unacceptable risk to human health and the environment. It is these constituents and pathways that will require remediation. The BRA also is crucial in developing the site-specific remedial action objectives to be met upon completion of remedial activities. On the basis of the findings of the RI and BRA, the FS develops and evaluates remedial alternatives and provides analyses and recommendations for the remedial alternative(s) to be implemented at the Surplus OU at Fort Sheridan, as appropriate.

This section of the RI Report includes a description and history of Fort Sheridan and the Surplus OU; a summary of past work conducted at the study areas referenced above; and a discussion of the objectives, scope, and approach for these study areas.

1.1 Site History

The site historical information presented here is, in part, derived from reports prepared by Argonne National Laboratory (ANL) (October 1989), E.C. Jordan Company (July 1990), ESE (August 1987), U.S. Army Corps of Engineers (USACE) (May 1982), and Gross *et al.* (1982).

Fort Sheridan, named for General Phil Sheridan, was established in 1887 in the wake of the Great Chicago fire of 1871 and at the request of Chicago city leaders following labor riots of 1886. Land was donated to the government for a token fee of $10 by three members of the Commercial Club of Chicago. The donors were Adolphus Bartlett, Charles Hutchinson, and John Janes. Three ravines at Fort Sheridan are named for these individuals. Fort Sheridan is located approximately 25 miles north of Chicago along the western shore of Lake Michigan. The installation location is shown in Figure 1-1.

Troops trained at Fort Sheridan served in the Spanish-American War in 1898, the Mexican War in 1913, and World Wars I and II. Fort Sheridan was a training center for anti-aircraft artillery units during World War II. From the 1950s until 1974, Fort Sheridan served as maintenance and supply center to NIKE air-defense missile systems for the Chicago, Gary, Detroit, Minneapolis-St. Paul, and Milwaukee air-defense network. Three NIKE missile silos were installed in the northern part of Fort Sheridan. These silos have been largely stripped of equipment and abandoned.

As previously mentioned, Fort Sheridan was recommended for inclusion in the BRAC program in 1988. The installation ceased military operations as an Army facility in 1993. Portions of the installation were realigned to the U.S. Army Reserve and the U.S. Navy. Approximately 100 acres are now owned by the U.S. Army Reserve and used for equipment storage and disbursement, training, and administrative functions. Approximately 200 acres are owned by the Navy and are used for family housing, administration, vehicle maintenance, communications, and training.

Approximately 300 acres have been transferred to private ownership while the remainder of the installation (approximately 100 acres) is still under Army jurisdiction and will be transferred to private ownership upon completion of the environmental restoration activities. There are approximately 425 structures including administrative offices, maintenance and storage buildings, barracks, and family housing on the entire former Fort Sheridan property. The base also contains a cemetery which will remain under Army jurisdiction. The property in the Surplus OU is expected to be assigned to residential, commercial, and recreational uses.

1.2 Investigative Areas

Preliminary assessments of Fort Sheridan, conducted in 1982 and 1989, identified several areas on the installation affected by previous landfilling activities; storage and handling of petroleum, oils, and lubricants (POL), as well as other motor pool wastes; former coal storage areas (CSAs); and storage and handling of various chemicals (Gross *et al.*, 1982; ANL, 1989). The nature and duration of these activities at Fort Sheridan justified conducting an RI/FS to verify and quantify the nature and extent of associated chemical constituents in the environment, perform human health and environmental risk assessments, and evaluate remedial action alternatives leading to individual study area response actions, if necessary.

The RI/FS program at Fort Sheridan is being conducted in accordance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), the USEPA RI/FS Draft Guidance Manual (USEPA, 1988), and state guidelines. As such, the RI/FS program was implemented in accordance with protocols, procedures, and work scopes identified in the following plans: (1) site specific SAPs; (2) the OQAPP (ESE, 1995a); and (3) the Health and Safety Plan (HASP) (ESE, 1995b). These plans correspond directly to the Field Sampling Plan, the Quality Assurance Project Plan (QAPP), and the HASP identified in USEPA guidance (USEPA, 1988).

A Phase I RI was conducted at Fort Sheridan from 1990 through 1992. Data collected and analyzed during this phase of the RI work at Fort Sheridan addressed the following study areas:

- LF1 through LF7;
- Vehicle and Equipment Storage (VES) Areas 1 through 9;
- Former CSAs 1 through 4;
- Miscellaneous Buildings, Yards, Aboveground Storage Tanks (ASTs), and Underground Storage Tanks (USTs);
- Potential Asbestos-Containing Material in Buildings;
- NIKE Missile Silos and Support Facilities; and
- Ravine Areas.

Samples of various media (i.e., soil, sediment, surface water, and groundwater) from these areas were investigated through the use of test pits, soil borings, monitoring wells, and grab samples. The portion of the Phase I RI field effort specific to the ravines and Beach Area study areas of the Surplus OU RI were unexploded ordnance (UXO) sweeps to clear areas for surface and subsurface investigation. Twelve soil borings (all of which were converted into monitoring wells) were completed at the Beach Area. These monitoring wells were installed along the beach at six well nests of one deep well and one shallow well. Soil samples were collected from 6 of the 12 soil borings (soil samples were not collected from the shallow borings at each well nest location). Subsequent to the installation of the Beach Area monitoring wells, one round of groundwater samples was collected. Four sediment/surface water samples were collected from Janes and Hutchinson Ravines. In addition, four sediment/surface water samples were collected along the beach at the Lake Michigan outfalls of Janes Ravine, Hutchinson Ravine, the Airport Drain, and a small unnamed ravine near Hutchinson Ravine.

The report on the Phase I RI activities (Draft Final RI Report, ESE, 1992) included recommendations for further actions to additionally characterize the various study areas and support a BRA and FS for Fort Sheridan. The recommendations included in the Draft Final RI Report, as well as data gaps identified in a subsequent review of the Draft Final RI Report and other historical information, indicated the need for additional data to be collected and analyzed in a Phase II RI.

Although, the Draft Final RI contained information on study area-specific background samples, the BCT identified the need to develop an installation-wide background data set. Background sampling areas were selected by the BCT, and a background sampling and analysis plan (BSAP) was published and approved (ESE, 1995c). The background soil, sediment, surface water, and groundwater samples were collected in 1995. Additional background surface water and sediment data were collected in 1996 as part of the toxicity testing to support the ecological risk assessment. Two rounds of background groundwater samples were collected in 1995 and 1996. The results of the background sampling (except the additional surface water and sediment data) are contained in the Final Background Sampling and Data Evaluation Report (ESE, 1997). This background data set is accepted by the BCT as adequate to establish background conditions for Fort Sheridan as a whole.

Fort Sheridan was divided into two principal OUs in 1995 to facilitate the implementation of the subsequent RI/FS and expedite the reuse of surplus Army property under the BRAC program. The first OU, designated the Surplus OU, consists of the property that was still owned by the U.S. Army and planned for disposal and reuse. This area occupies the north end of Fort Sheridan and is primarily composed of the golf course and historic district. The second OU is designated the Department of Defense (DoD) OU since this area will remain the property of the Navy and Army Reserves. It includes most of the area to the south of Bartlett Ravine and the Army Reserve area in the northwest corner of Fort Sheridan. The boundaries of the two OUs are indicated in Figure 1-2.

The Phase II RI data collection and analysis were conducted on the Surplus OU from October 1995 through June 1996. The Phase II RI field effort addressed all the Phase I Surplus OU study areas plus several additional study areas identified through review of historical information. The following individual study areas were investigated:

- Disturbed Area
- Former Trap Range
- Reported Ammunition Burning Area
- Reported Beach Pistol Range
- Small Arms Range North (SARN)
- Former NIKE Site Control Area [Building 912 (B912)]
- Former Water Treatment Facility
- Former Ammunition Magazines
- NIKE Missile Launch Control Area
- McArthur Loop Drain
- Landfill (LF)2, LF3, and LF4
- CSAs 1, 2, and 3
- VES1 and VES2
- Yards at B126 and B216
- B40
- B42
- B43
- B57A, B57C, and Former B57B
- B77
- B86
- B117
- Former B127
- B135
- B172 and B173
- B911

Samples of various media from these study areas were collected through the use of test pits, soil borings, monitoring wells, and grab samples. The portion of the Phase II field effort specific to the ravines and Beach Area study areas included UXO avoidance surveys to clear areas for surface and subsurface investigation. Two rounds of groundwater samples were collected from the existing monitoring wells at the Beach Area. In addition, two soil borings were completed and two sediment samples were collected from the Beach Area as part of the investigation of the impact area of the Former Trap Range, with soil/sediment samples being collected from each location. In addition, four sediment/surface water samples were collected from Janes and Hutchinson Ravines. The sampling and analysis program for Phase II is detailed in the Phase II SAP (ESE, 1995d).

Based on a review of Phase I and II data and site conditions, it was determined that additional data were required to support the BRA, principally the ecological risk assessment. Consequently, a Phase III RI was performed in the fall of 1996. The portion of the Phase III field effort specific to the ravines and Beach Area study areas included the collection of sediment/surface water samples from Janes and Hutchinson Ravines and Boles Loop Drain to support the ecological BRA. In addition, sediment toxicity testing was conducted on the invertebrates *Hyalella azteca (H. azteca)* and *Lumbriculus variegatus (L. variegatus)*. The sampling and analysis program for Phase III is detailed in the Phase III SAP (ESE, 1996a).

Subsequent to submittal of the Draft Surplus OU Remedial Investigation/Baseline Risk Assessment Report, excavation activities in support of the future Golf Course Club House construction by the Lake

County Forest Preserve District uncovered a previously unidentified area of disposed material. This material is located within the fence line in what is commonly referred to as the 38-acre parcel. The nature of the disposed material is metallic debris, wire, nails, cinders, and occasional items such as paint cans. The RI sampling activities conducted in the area of LF2/SARN did not fall within the area of the disposed material. Therefore, this area was not identified as a study area in any of the existing reports. This area does not appear on historical aerial photographs as a disturbed area and is not identified in any previous environmental assessments. It appears that the "new" area of waste disposal is not contiguous to and is separate from LF2. Therefore, this area was designated as the 38-Acre Parcel Fill Area. A Phase IV RI was conducted at the 38-Acre Parcel Fill Area and consisted of UXO avoidance surveys, trenching, and soil sampling.

Results of the investigations for several of the aforementioned study areas have been presented and evaluated in previous reports (Final LF3&4 OU RI/BRA Report and Final Sampling Results and Data Evaluation Report for miscellaneous Surplus OU Study Areas). Due to the recent discovery of disposed material in the 38-Acre Parcel Fill Area, the LF2/SARN study area was excerpted from the Draft Surplus OU RI/BRA Report. The data collected from the LF2/SARN and 38-Acre Parcel Fill Area study areas will be presented in a separate Draft Final RI/BRA Report.

The Beach Area is located on the eastern portion of the Surplus OU, starting at the base of the bluffs along Lake Michigan to approximately 10 feet out into the lake, between Janes and Hutchinson Ravines. The Beach Area includes the impact area of the Former Trap Range as well as the entire Reported Ammunition Burning Area (ESE, 1995d). The Enhanced PA indicates that the study area was used prior to World War I (Gross *et al.*, 1982). The existence of an ammunition burning area was reported by ANL (1989). The text of the ANL report indicates that disposal of munitions at the Beach Area was discontinued following World War II.

Many study areas are defined two dimensionally as an outline on a map and are considered to extend vertically into the earth as far as is necessary to define the extent of affected media. The Beach Area is somewhat unique in this regard in that it has a limited vertical extent. Due to the hydrogeologic conditions at this study area, the vertical extent of the Beach Area is defined as extending to a depth of approximately 7.5 ft-bgs. This depth coincides with the depth to the beach sand/clay till interface.

The rationale behind this determination stems from the relationship between the beach and the undisturbed till underlying it and the upward hydraulic gradients observed in the beach wells. While the Beach Area sediments may have been affected by activities at the beach, these activities are unlikely to have affected the underlying till due to the upward hydraulic gradient. The samples collected from the till (including the groundwater samples) are actually upgradient of the beach sands. The till is downgradient of the LF2/SARN study area. Therefore, any adverse effects to the till are more likely to be related to LF2/SARN than the Beach Area.

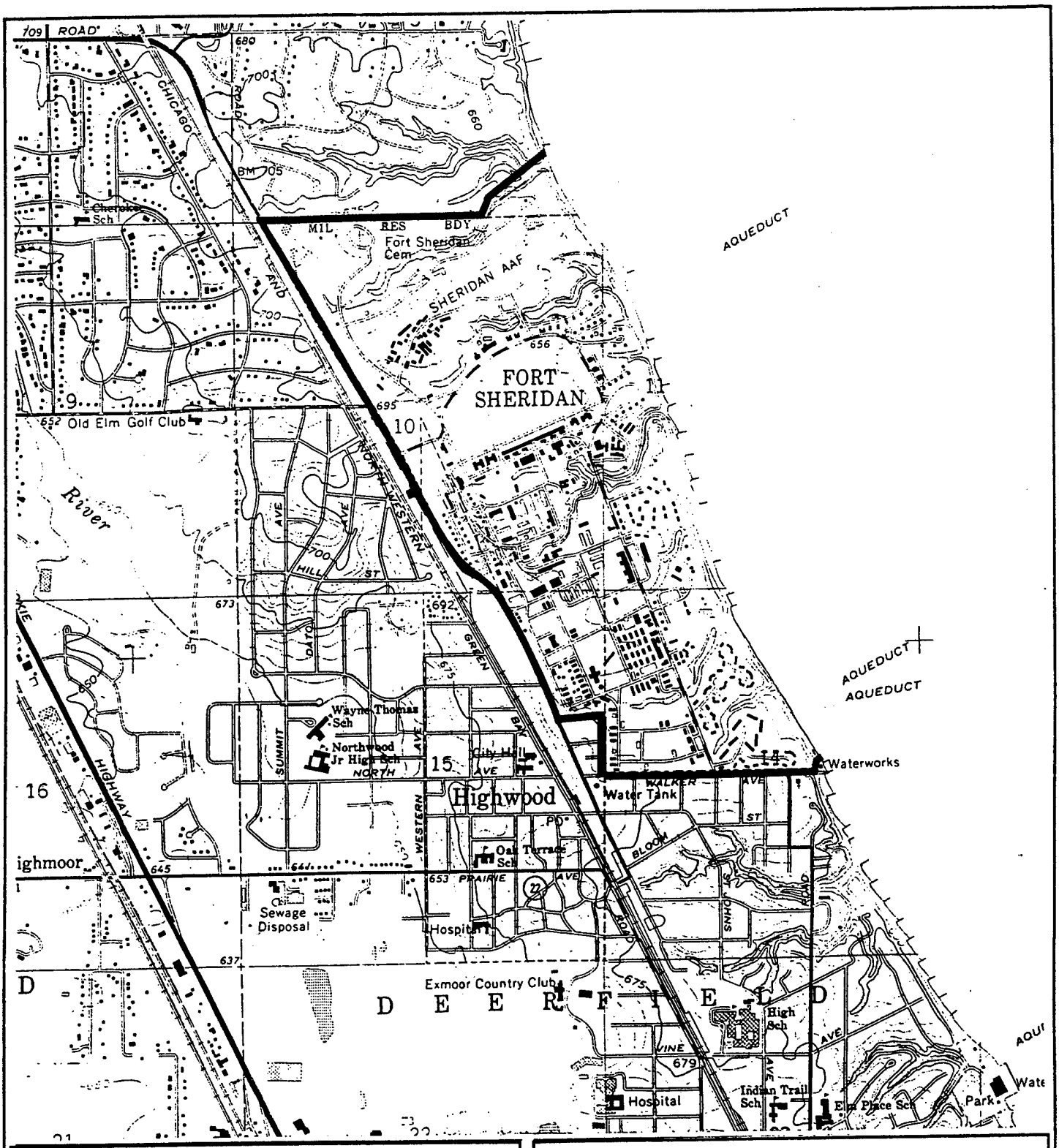
Janes Ravine runs west to east along the northern boundary of the Surplus OU and Hutchinson Ravine runs west to east across the center of the Surplus OU. Janes and Hutchinson Ravines were identified as areas potentially affected by mission-related constituents from various study areas at Fort Sheridan.

1.3 Project Objectives

The overall objectives of this RI, which encompassed three phases of field work, are to:

1. Characterize the nature and extent of mission-related constituents within and beyond the identified study areas;
2. Determine and characterize the sources of these constituents;
3. Define and characterize the potential pathways of constituent migration; and
4. Identify and characterize actual and potential human and environmental receptors.

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QUADRANGLE LOCATION



Project #490-2087
Adapted From USGS Topographic Quadrangle:
Highland Park, Illinois, 1980.

QST ENVIRONMENTAL

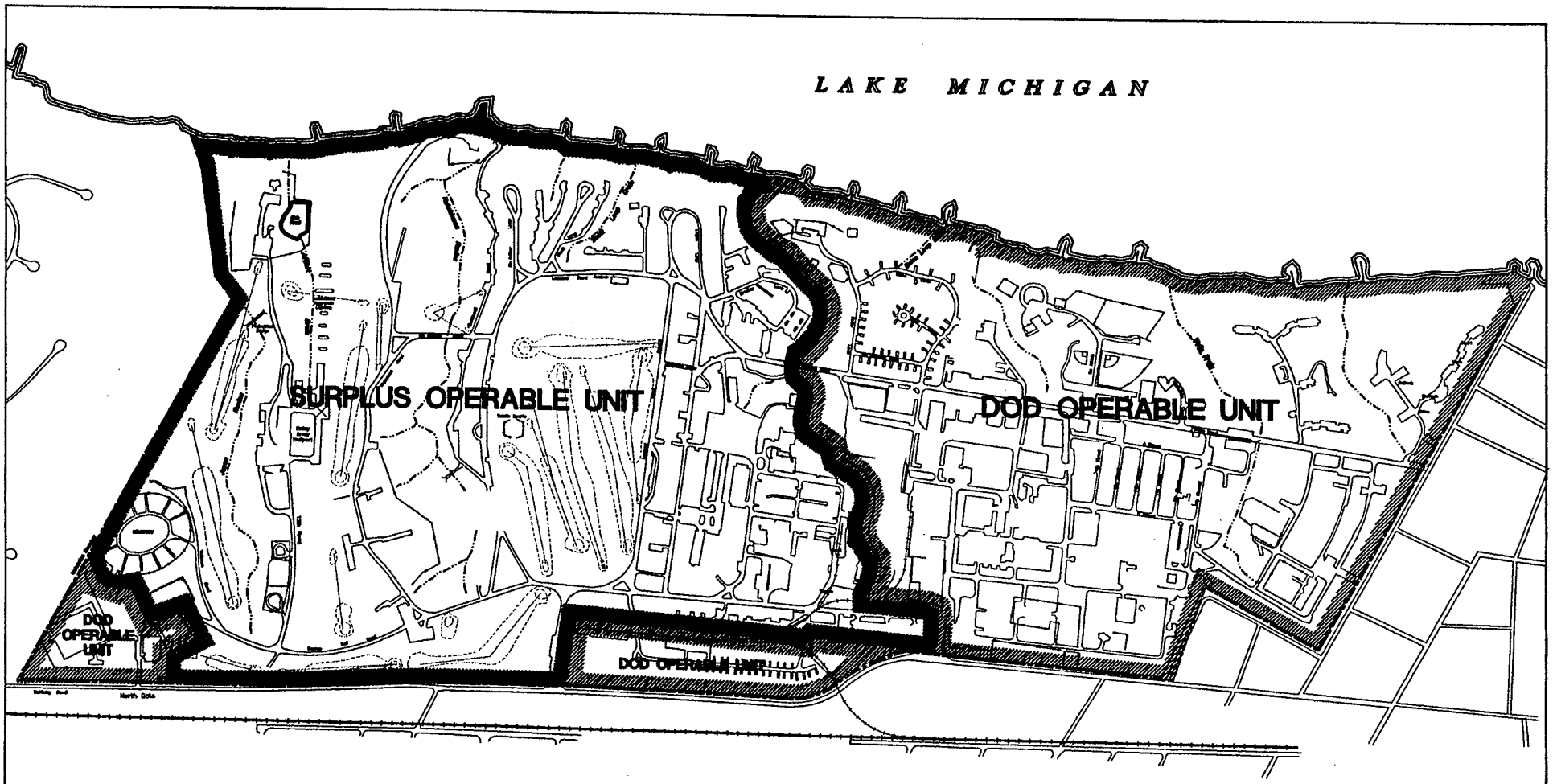
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Figure 1-1

Site Location

Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

Fort Sheridan, Illinois



Adapted from Official Post Map, Directorate of Engineering and Housing, Fort Sheridan, Illinois, January 6, 1989

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Revised JCF 03/09/98

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Figure 1-2

Fort Sheridan Operable Units

Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

Fort Sheridan, Illinois

2.0 Setting and Physical Characteristics

Fort Sheridan lies along the western shore of Lake Michigan and is bounded by the towns of Highwood to the west, Highland Park to the south, and Lake Forest to the north (see Figure 1-1). Fort Sheridan covers an area of approximately 712 acres.

2.1 Site Location and Physiography

The land occupied by Fort Sheridan is approximately 50 feet above Lake Michigan. The topography is relatively flat and gently sloping toward Lake Michigan. The lake side of the installation terminates in a bluff or embankment which extends the full length of the boundary and beyond. This bluff is between 50 and 70 feet high. The beach at the base of the bluff is approximately 20 to 50 feet wide and is composed of sand to boulder-sized material with the coarser fraction dominant. Elevations, exclusive of the beach, range from about 650 to 695 feet national geodetic vertical datum (NGVD).

Several well developed ravines, running west to east, dissect the installation. With few exceptions, the ravines are largely undisturbed and contain trees and other natural vegetation. To a significant degree, the original surface character of Fort Sheridan has been altered by construction activities including buildings, roads, parking lots, and the installation golf course. The ravines and Beach Area study areas of the Surplus OU occupy a portion of the northeastern corner of the installation. The two ravine study areas (Janes and Hutchinson) run from the Lake Michigan shore nearly to the western installation boundary. In terms of buildings and roads, the northern part of Fort Sheridan is the least developed. However, the natural topography has been substantially altered by other human activities, dominated by the golf course. Prior to the construction of the golf course, a 1,000 yard rifle range and pistol range occupied a large portion of the northern end of the installation. The target berms for these ranges were roughly coincident with LF2. Later in the installation's history, the target berms were flattened for the construction of a grass landing strip in the same area. The upland (i.e., not beach or ravine) Surplus OU areas are, for the most part, unmaintained meadow, although small areas are paved for parking or other activities.

Janes Ravine is among the least disturbed of the major ravines dissecting Fort Sheridan. The majority of Hutchinson Ravine is also relatively undisturbed and well vegetated. However, a small northern branch has been filled by road building and landfilling. This area is referred to as LF2. The mouth of Hutchinson Ravine was substantially altered by the installation of the base water treatment facility. The Beach Area has been altered by the presence of groins extending into the lake that have changed the natural erosion/deposition patterns of the beach.

2.2 Demographics and Land Use

Until its closure in May 1993, Fort Sheridan supported 74 U.S. Army Reserve centers in parts of three states (Illinois, Indiana, and Michigan), with an installation staff of approximately 1,525 military personnel, 1,650 civilians, and 2,000 dependents. Fort Sheridan is currently in caretaker status under authority of Fort McCoy, Sparta, Wisconsin. Under its caretaker status, Fort Sheridan has approximately 35 personnel associated with the Surplus OU split between the caretaker force, the fire station, and the BRAC office. There are approximately 1,000 residents and 20 full time workers on the Navy property. The Army Reserve property has approximately 150 full time workers and up to 200 reservists on weekends.

Fort Sheridan is bounded by three residential communities—Lake Forest on the north, Highwood on the west, and Highland Park on the south. The City of Lake Forest Nature Preserve is immediately to the north. Lake Forest has a population of 17,836 with 5,822 households. The town is mostly residential with several small businesses. Major employers include Benefit Life Insurance, Lake Forest Hospital, Northern Trust Bank, the City of Lake Forest, schools such as Lake Forest College and Barat College, and Moore Business Forms.

Highwood has a population of 5,331. It is a small town, mostly residential, with many small businesses. The urban center for the town of Highwood lies immediately adjacent to the southwest corner of Fort Sheridan. The city center is dominated by small shops and restaurants and covers a small area of a few blocks. Satellite to this is residential housing and one elementary school.

Highland Park has a population of 30,575 with over 12,000 households. The town is mostly residential. The major employers are Highland Park Hospital, Solo Cup, the City of Highland Park, U.S. Postal Service, and Highland Park Library. The city center of Highland Park lies about 2 miles south of Highwood and covers approximately twice the area of Highwood's city center. Commercial activities here are also dominated by small stores and restaurants.

The demographic information for the communities is presented in Table 2-1.

2.3 Climatology

The climate of northeast Illinois is classified as continental with warm summers, cold winters, and moderate amounts of rainfall. Frequent changes in temperature, humidity, wind direction, and other meteorological parameters are common due to fronts and cyclonic weather systems passing through the area, generally from west to east.

Temperature information based on data for Waukegan, Illinois, which is located approximately 10 miles north of Fort Sheridan, is presented in Table 2-2. During summer, the average mean temperature is

69 degrees Fahrenheit (°F). July is the hottest month, with an average mean temperature of 71.2°F. During winter, the average mean temperature is 22.6°F. January is the coldest month, with an average mean temperature of 19.3°F [National Oceanic and Atmospheric Administration (NOAA), 1992]. Temperatures of 90°F or higher occur an average of 18 days per year, while temperatures of 32°F or lower occur an average of 122 days per year [National Climatic Data Center (NCDC), 1945-1988]. The growing season along Lake Michigan is about 165 days.

The annual average relative humidity is between 60 and 80 percent. The average annual precipitation at Fort Sheridan is approximately 34.2 inches, with a range of 1.24 to 3.97 inches per month from 1961 to 1990 (NOAA, 1992). Monthly precipitation averages approximately 3 inches during spring and autumn and approximately 3.7 inches during the summer. The wettest months are April through September, while the least amount of precipitation falls during January and February. Data from 1931-1960 indicate that, in summer, most of the precipitation falls during short duration showers and/or thunderstorms (Paschke and Alexander, 1970). The average number of thunderstorms per year in that period was 35, with generally one or more events per year that produced one or more inch(es) of precipitation. This indicates a moderate potential for storms to create runoff and erosion in the ravines/drains at Fort Sheridan.

During winter, the typical total snowfall measures from 35 to 40 inches, with a maximum occurrence of 82 inches. From 1950 to 1965, 90 percent of the snow fell in the months December through April (Paschke and Alexander, 1970). At least 1 inch of snow cover is present from 50 to 75 days per year at Fort Sheridan (National Snow and Ice Data Center, 1997). Monthly snowfall averages approximately 6.8 inches from November to April. The month with the greatest average amount of snowfall is January with 11 inches.

The winds at Fort Sheridan are altered in direction and velocity as they blow from an uneven land surface to a smoother lake surface or vice versa. The prevailing wind speed and direction in northeastern Illinois is from the south-southwest at about 10 miles per hour on an annual basis. However, on a monthly basis, two distinct climatological patterns are evident. From November through April, the wind is predominately from the west at 9 to 12 knots. From June through October, the wind is predominately from the south to southwest at 7 to 9 knots. The months of April and May are transitional, with prevailing winds from the northeast at approximately 11 to 12 knots. Daily weather summaries for Chicago during 1995 are included as Appendix A.

Like other areas on or near the lakeshore, Fort Sheridan is also subject to the meteorological effects of Lake Michigan commonly known as the "lake effect." In the spring, mean lake temperatures tend to be significantly lower than land temperatures due to a higher energy requirement for water evaporation and density differences. In the autumn, mean lake temperatures are significantly higher due to lake turnover, thereby keeping temperatures above those of the surrounding land (Eichenlaub *et al.*, 1990).

2.4 Surface Water Hydrology

The surface water drainage of Fort Sheridan as a whole is dominated by the ravines and the installation storm drain system. The ravines and the storm drain system run generally from east to west. Surface water runoff flows either into the nearest ravine or into the installation's storm drain system; both ultimately discharge into Lake Michigan. The main surface drainages in the Surplus OU from north to south are Janes Ravine, Airport Drain, Hutchinson Ravine, McArthur Loop Drain, Scott Loop Drain, and Bartlett Ravine, respectively. Prior to the filling of the north branch of Hutchinson Ravine, the beach road that cuts across the north branch of Hutchinson Ravine was constructed. As mentioned previously, the two main ravines within the Surplus OU are Janes and Hutchinson, both of which are relatively undisturbed except as previously mentioned. The construction of the water treatment plant at the mouth of Hutchinson Ravine necessitated the rerouting of the stream in the ravine bottom. A dam was constructed and a culvert diverting the water under B29 (the water treatment facility) was installed.

2.5 Geology

The surficial geology of the northern Illinois area is the result of the Wisconsinan glacial period of Pleistocene Age. The maximum extent of the glacier occurred during Woodfordian Time. As the ice sheet retreated, glacial till was deposited. The till in the Fort Sheridan area is primarily a calcareous gray clay-rich material.

2.5.1 Regional Geology

Fort Sheridan is located within the Lake Border Morainic System of the Central Lowland Physiographic Province. This system consists of five closely-spaced moraines that are parallel except near the Wisconsin state line where they appear to overlap. Specifically, the installation is located on the easternmost moraine, Highland Park Moraine, in southern Lake County. The location of the installation in relation to these features is illustrated in Figure 2-1.

The till material deposited in the Fort Sheridan region has been classified as the Wadsworth Till Member of the Wedron Formation. This till consists mostly of gray clay-rich material with isolated pockets and lenses of sand, gravel, or silt within the till. Deposition of the Wadsworth Till Member probably occurred during several fluctuations of the ice margin (Johnson *et al.*, 1985).

Underlying the Wadsworth Till is dolomite of Silurian Age. Specifically, this dolomite has been classified as the Niagaran Series. The dolomite from the Niagaran and underlying Alexandrian Series is locally known as the shallow dolomite aquifer. The Ordovician Maquoketa Group consisting of non-water bearing shales separates the Silurian dolomites from the deeper bedrock aquifer. However, significant downward leakage has been reported in the Maquoketa shales (i.e., the aquifers are not hydraulically isolated from each other) (ANL, 1989).

2.5.2 Site Geology

The topography at Fort Sheridan is relatively flat, with a gentle easterly slope terminating in a bluff that runs along Lake Michigan. The general flatness of the area is punctuated by ravines eroded into the till that extend toward Lake Michigan. These ravines, which drain Fort Sheridan, are roughly perpendicular to the lake's shoreline.

The composition of the unconsolidated material at the installation was determined through a review of the boring logs and field observations. Boring logs from the investigation areas discussed in this RI are presented in Appendix B. This review identified the unconsolidated material at Fort Sheridan to be composed primarily of a clayey till. Small isolated intervals of sand, gravel, and/or silt were encountered in the borings advanced throughout this till. Glacial till, by definition, is unstratified, and the observations from the drilling and test pitting activities support this characterization. The original surface of the till over most of the installation has been reworked and disturbed by construction activities, road building and the like. However, the original fabric of the till is observable beneath this disturbed veneer. In general, the till is a heterogeneous mixture of clay (80+ percent) with sand, gravel, and silt making up the remaining 20 percent. There are occasional fractured zones. These are most common near the ground surface in the unsaturated zone. The fractures do not appear to be ubiquitous. However, at LF2/SARN significant thicknesses of sand/silty sand (up to 18 feet thick) were encountered in several soil borings installed within 400 feet of the bluff on the eastern portion of LF2/SARN. This area is the only area at Fort Sheridan where significant thicknesses of sand/silty sand were encountered in more than one soil boring. These sand/silty sand deposits may be remnants of historical sand dunes and/or paleolake deposits along the Lake Michigan shoreline. Cross-sections of the Surplus OU RI study areas were constructed using the information from the Phase I and II boring and test pit logs. No soil borings or test pits were completed in the Surplus OU RI study area during Phase III. The locations of the cross-sections are indicated on Figure 2-2 and the cross-sections are included as Figures 2-3 and 2-4.

The coarser grained intervals encountered in the soil borings generally do not correlate across boreholes and appear to represent discontinuous sand lenses. These lenses are truncated relict beach strands and former stream channels formed during fluctuating paleolake levels. There is a more detailed discussion of the Fort Sheridan geology in the Groundwater Classification Document (GCD) (ESE, 1996b). The geology of the Surplus OU is typical of the installation as a whole.

2.6 Soils

The Soil Conservation Service of the U.S. Department of Agriculture (USDA) has included the Fort Sheridan area in the Morley-Beecher-Hennepin Soil Association (Paschke and Alexander, 1970). This association occurs in a long narrow belt that extends from the southeastern corner of the county north almost to Waukegan. This area is characterized by relatively flat topography with deep ravines. The ravines start at the escarpment bordering Lake Michigan and extend into the uplands.

Three major and two minor surface soil series have been identified at Fort Sheridan. The major soil series are the Morley, Hennepin, and Beach Sands. The Morley Series is the predominant soil at Fort Sheridan. The Beach Sand is restricted to the shoreline of Lake Michigan. The Hennepin Series is found along the bluff overlooking the lake and the deep ravines. The minor soil series, which have been identified near the western boundary of Fort Sheridan, are the Beecher and Markham.

The Beach Sand consists of sand and water-rounded stones. This sand is found along the entire shoreline of Lake Michigan. At Fort Sheridan, the Beach Area is narrow and unstable. Groins, which extend out into the lake, have been placed along the shore at Fort Sheridan as a means of checking bluff erosion. The groins also allow the build-up of beach deposits on their northern side due to the generally southerly long shore drift. However, a recent evaluation of the groins indicates that their effectiveness in checking bluff erosion is in question (Shabica and Associates, 1997).

The Hennepin soil identified at Fort Sheridan is formally termed the Hennepin Loam. This soil is present on the bluffs of Lake Michigan and in the steep ravines that extend back into the uplands. The well-drained Hennepin soils are developed in calcareous glacial material of silty, loamy, or sandy texture and generally maintain 30 to 60 percent slopes.

The remaining soil series, Beecher, Markham, and Morley, have formed in thin silty deposits and the underlying calcareous glacial till of silty clay loam texture (Paschke and Alexander, 1970). Each of these soils is present in the upland areas of the county (i.e., the top of moraines). The permeability of each of these soil series has been described as moderately low due to their high-clay content.

2.7 Hydrogeology

The sediments underlying Fort Sheridan consist predominantly of clay to silty clay with occurrences of thin (generally less than 3 feet in thickness) and laterally discontinuous silt, sand, or gravel lenses. The hydrogeologic characteristics of the till underlying Fort Sheridan are discussed in detail in the GCD (ESE, 1996b). In addition to the observations from test pits and soil borings, there is abundant evidence that the sand and silt lenses in the till are not laterally continuous and do not represent viable sources of drinking water. In recognition of this, the IEPA has agreed with the GCD recommendation that the groundwater at Fort Sheridan be classified as Class II according to 35 Illinois Administrative Code (IAC) 620 to 49 feet below ground surface (ft-bgs).

Groundwater elevations have been obtained from piezometers previously installed by Zimmer Howell Engineering in 1984 as part of a sanitary sewer investigation. A generalized potentiometric map based on data from the piezometers is included as Figure 1 in Appendix C. These data show that the installation-wide groundwater flow is toward Lake Michigan with a significant flow component toward the ravines in areas proximal to them. Static water levels varied from 2 to 3 ft-bgs to 15 ft-bgs near the ravines or bluff.

The piezometers installed in 1984 were fairly evenly distributed across the installation. As a result, there were no large areas of Fort Sheridan lacking potentiometric data. In contrast, the monitoring wells installed as part of the RI investigation naturally tended to clustered around areas of known or suspected releases. Consequently, there are certain areas (e.g., the landfills) that have a high density of potentiometric data and other areas from which there are little or no data. In order to construct an interpretive groundwater contour map using RI data, a significant amount of interpolation between the areas of high data density had to be performed. The significant topographic relief proximal to the ravines and its effect on the water table had to be factored in to the interpretation, as well. The tabulated depth-to-water measurements from the installation wide monitoring well network are included as Appendix D.

The first step in constructing the potentiometric map from the RI monitoring well data was to cull from the data set the wells that were screened too deep or that had apparently not reached equilibrium at the time of data collection. The next step was to interpolate some data points in the bottom of the ravines from the topographic contour map of the installation. The streams in the bottom of the ravines are expressions of the water table interfacing with the ground surface and were used as additional data points. The resulting data were then contoured and the results of that contouring are presented in Figure 2 of Appendix C. This figure is termed an "interpretive" contour map of groundwater elevations because of the amount of interpretation and interpolation that went into its construction. The contours do honor the data points used to construct the map and they conform to accepted practice and theory of groundwater contouring. However, there are large areas that were interpolated and these contours may not exactly match site conditions

The uniformity of the potentiometric surface illustrated in Appendix C indicates that the sand and silt lenses occasionally encountered in soil borings at the installation are acting as part of the larger-flow system and do not represent an independent well developed flow system or potential pathway for constituent migration. If the lenses of sand and silt were interconnected and represented an independent flow system of greater hydraulic conductivity, one would expect to observe perturbations in the potentiometric surface coincident with the preferential pathways. The potentiometric maps in Appendix C do not exhibit these features. Additionally, the average horizontal hydraulic gradient of 0.02 feet per foot (ft/ft) present across the installation is relatively steep. In general, steep gradients are indicative of low conductivity soils. The gradients observed at Fort Sheridan, in terms of uniformity and magnitude, suggest that the clay-rich matrix of the till is controlling the groundwater flow across the site.

Several monitoring wells appeared to be artesian all or part of the time during field investigations. Wells LF7MW04D, LF7MW05D, and LF7MW06D, located along the beach below LF7, are artesian with a static head of 17, 10, and 2.5 feet above ground surface (ft-ags), respectively. Wells LF2MW04D (2 ft-ags), LF2MW08D (3 ft-ags), and LF5MW04D (1 ft-ags) are sporadically artesian. Both LF2MW04D and LF2MW08D are located on the beach below LF2. LF5MW04D is located at the bottom of Bartlett Ravine. Each of these artesian, or sporadically artesian, wells is screened at depths

greater than (>) 20 ft-bgs and located in topographically low areas. The artesian character of these wells may be explained by their topographic location. The remaining deeper-screened wells located at the beach at LF2 in topographically low areas are not artesian.

In situ permeability tests (slug tests) were conducted on several monitoring wells during the Phase I RI. The analysis of these tests indicates that the clay-rich till at Fort Sheridan is relatively impermeable with hydraulic conductivities in the 10^{-7} to 10^{-6} centimeters per second (cm/sec) range. A discussion of the field methods, theory of slug/baildown tests, time/water level measurements, analysis of the data, and the results of the analyses are included as Appendix E.

Table 2-1. Population Demographics for Communities Surrounding Fort Sheridan, Illinois

	Highland Park		Highwood		Lake Forest	
Population	30,575		5,331		17,836	
White	28,650	93.7%	4,554	85.4%	17,018	95.4%
Black	787	2.6%	223	4.2%	226	1.3%
American Indian	17	0.2%	12	0.2%	15	0.1%
Asian	723	2.4%	89	1.7%	465	2.6%
Hispanic	1,438	4.7%	1,272	23.9%	316	1.8%
Other	398	1.3%	453	8.5%	112	0.6%
Male	14,951	48.9%	2,879	51.9%	8,590	48.2%
Female	15,624	51.1%	2,562	48.1%	9,246	51.8%

Source: Illinois Environmental Protection Agency, Office of Community Relations, 1994.

Table 2-2. Normal Temperature and Precipitation for Waukegan, Illinois (1961-1990)

Month	Normal Temperature (°F)	Normal Precipitation (inches)
January	19.3	1.71
February	23.2	1.24
March	33.8	2.45
April	45.0	3.52
May	56.0	3.31
June	66.1	3.60
July	71.2	3.74
August	69.7	3.97
September	62.5	3.71
October	51.1	2.34
November	38.6	2.38
December	25.2	2.23
Annual	46.8	34.20

Source: NOAA, 1992.

c **Cahokia Alluvium**
Deposits in floodplains and channels of modern rivers and streams; mostly poorly sorted sand, silt, or clay containing local deposits of sandy gravel; in many places overlies well-sorted glacial outwash of the Henry Formation.

gl **Grayslake Peat**
Peat, muck, and marl;dominantly organic deposits that are interbedded with silt and clay in some places. Mostly found in glacial lake basins; locally in lake basins on floodplains of major rivers.

hb **Batavia Member of Henry Formation**
Sand and gravel; well-sorted deposits of glacial meltwater in outwash plains and fans on uplands.

hm **Mackinaw Member of Henry Formation**
Sand and gravel; generally well sorted and well bedded; deposits in valleys; mostly glacial outwash in former valley trains and terrace remnants of former valley trains.

hw **Wasco Member of Henry Formation**
Sand and gravel; unevenly sorted, irregularly bedded lenses of silt and till; glacial ice-contact deposits in kames, eskers, and kame terraces.

lmr **Ravinia Sand Member of Lake Michigan Formation**
Sand on modern beaches; map shows only areas along major beaches of Lake Michigan such as those near Illinois Beach State Park.

sm **Surface Mines**
Includes coal strip mines; rock quarries; clay, sand, or gravel pits; and other excavated areas, including those where the mixed fill of bedrock or Quaternary deposits was replaced or disturbed. Also includes areas of manmade fill in areas formerly covered by Lake Michigan or Lake Calumet in northeastern Illinois and by causeways in Rend Lake and Carlyle Lake in southern Illinois. Many small areas are not shown.

ww **Wadsworth Till Member of Wedron Formation**
Mostly gray clayey and silty clayey till. The Wadsworth contains few pebbles and cobbles and is more clayey near Lake Michigan than till to the south and west. Local lenses of sand and silt. Where the intervening Haeger Till Member is absent, it is difficult to distinguish the Wasdworth from the Yorkville, and the boundary is placed at the front of the Valparaiso Morainic System. The Yorkville is a gray or greenish-gray, very clayey till overlain in some places by extensive glacial lake deposits. The Snider is a gray silty clayey till that has a coarse blocky structure.



Moraine
Overprinted pattern indicates moraines associated with the till members; generally continuous curvilinear areas that have elevated hummocky topography and local deposits of sand, gravel, and peat in addition to till.

QST

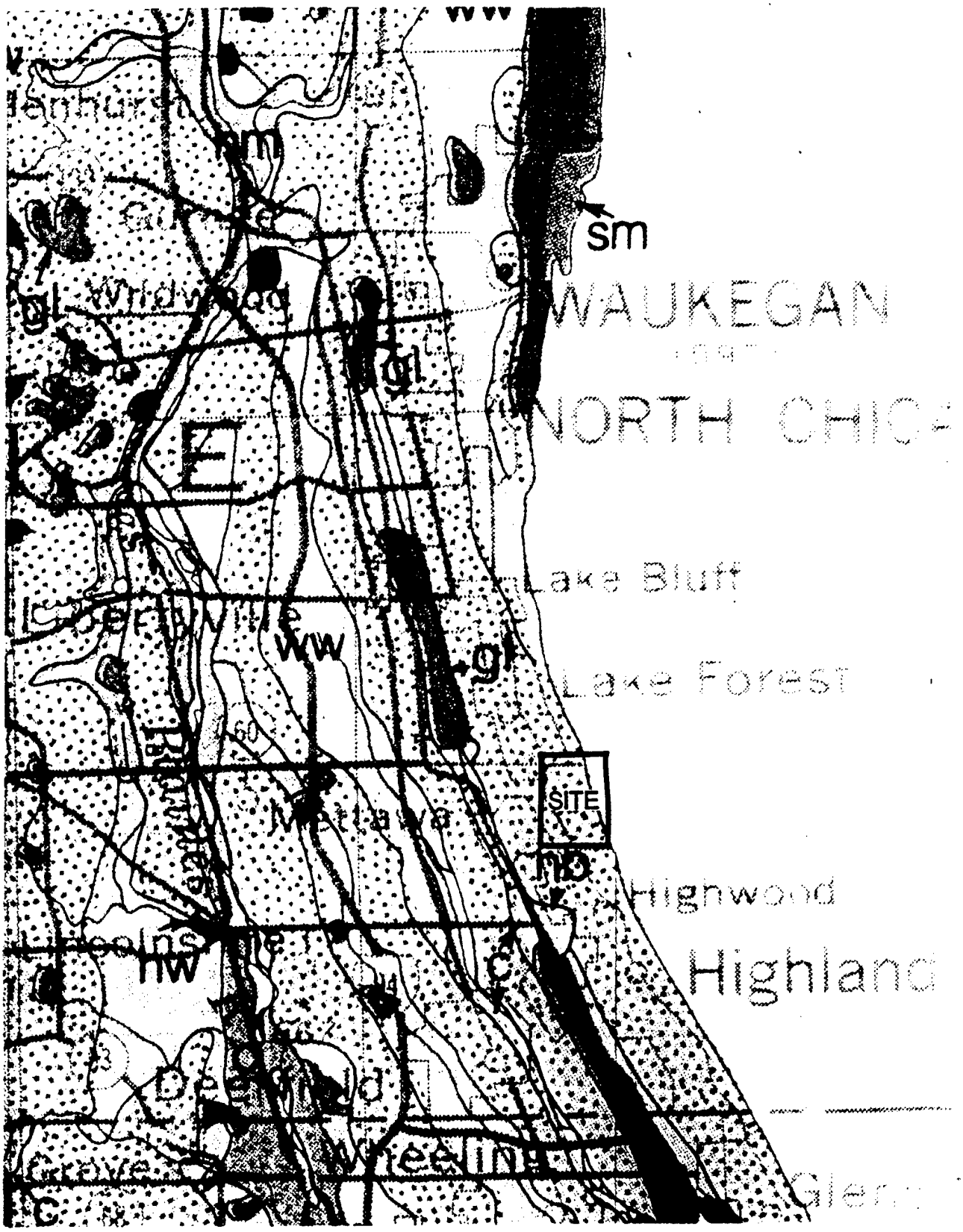
Approximate Scale: 1" = 12800'

JCF 07/09/97
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Source: Quaternary Deposits of Illinois, Illinois State Geologic Survey, 1979.

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Quaternary Geology of the Fort Sher

Final RI/BRA for th
Beach Area Stud
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For

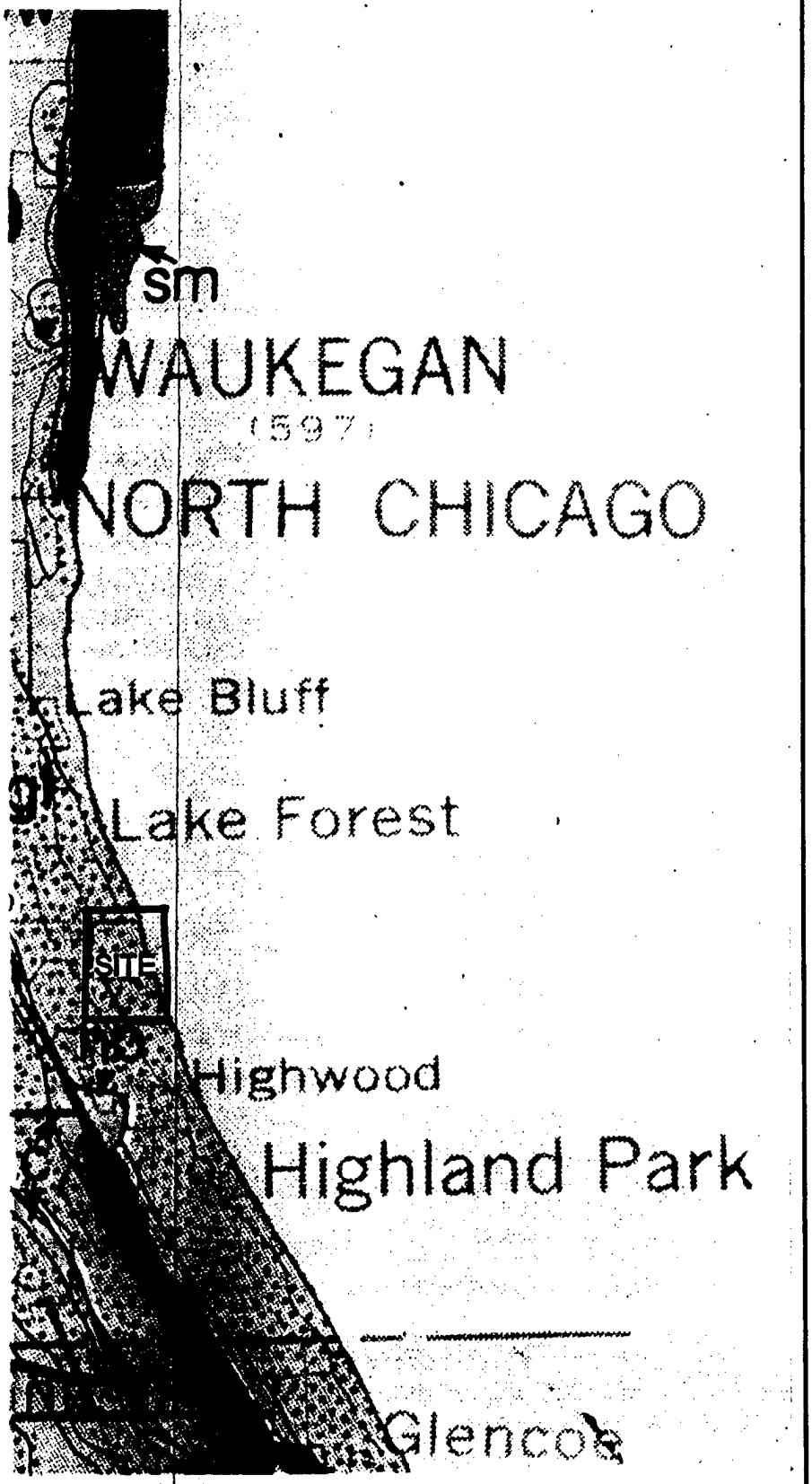
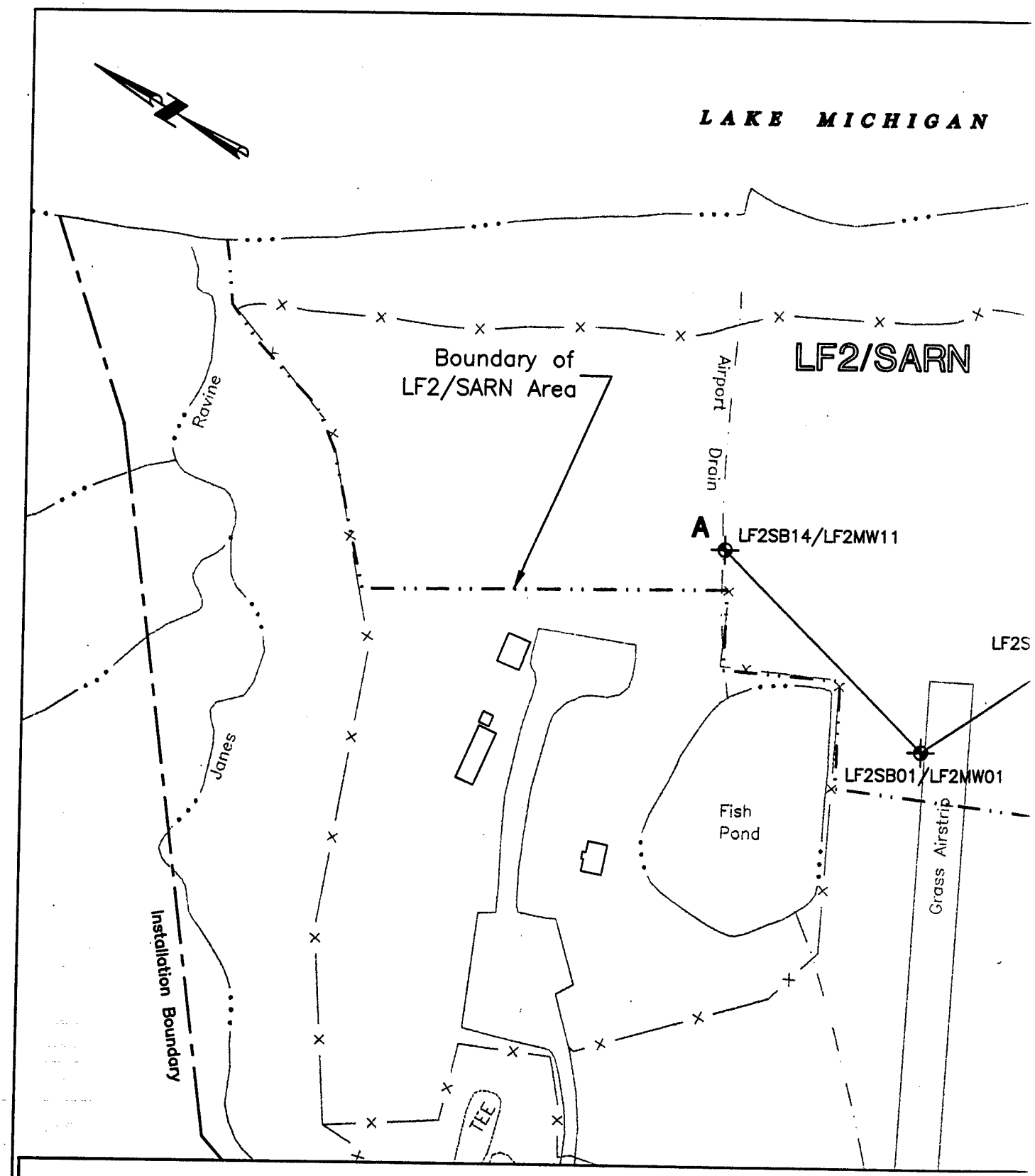


Figure 2-1

nary Geology of the Fort Sheridan Area

Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois



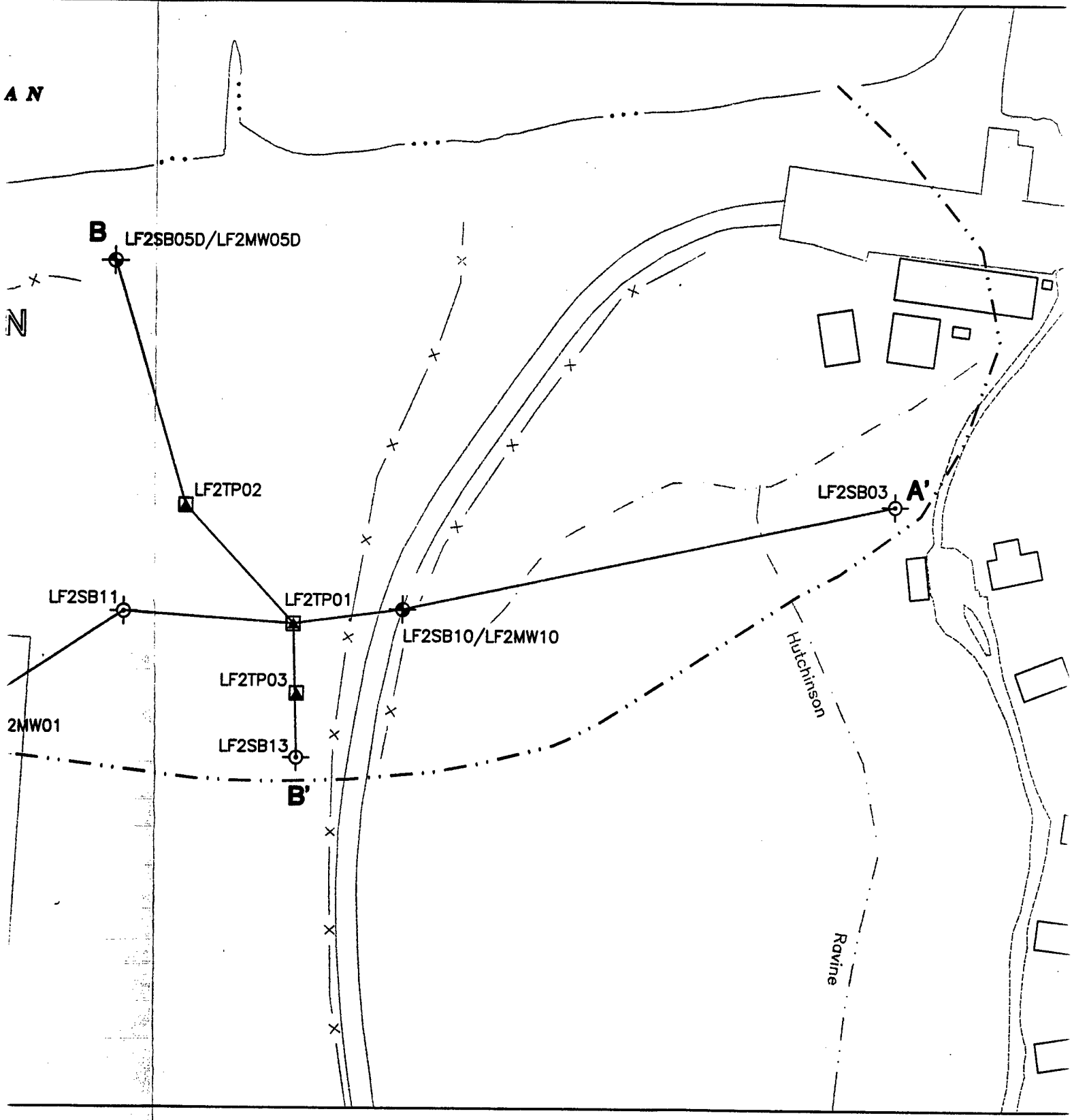
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Installation information adapted from an aerial survey by

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Fig

Cross Section Loca

Final RI/BRA for the Ravi
Beach Area Study Area
Surplus Opera

al survey by Air Survey Corporation, Sterling, Virginia. Date of photography, 12/06/95.

Fort Sherida

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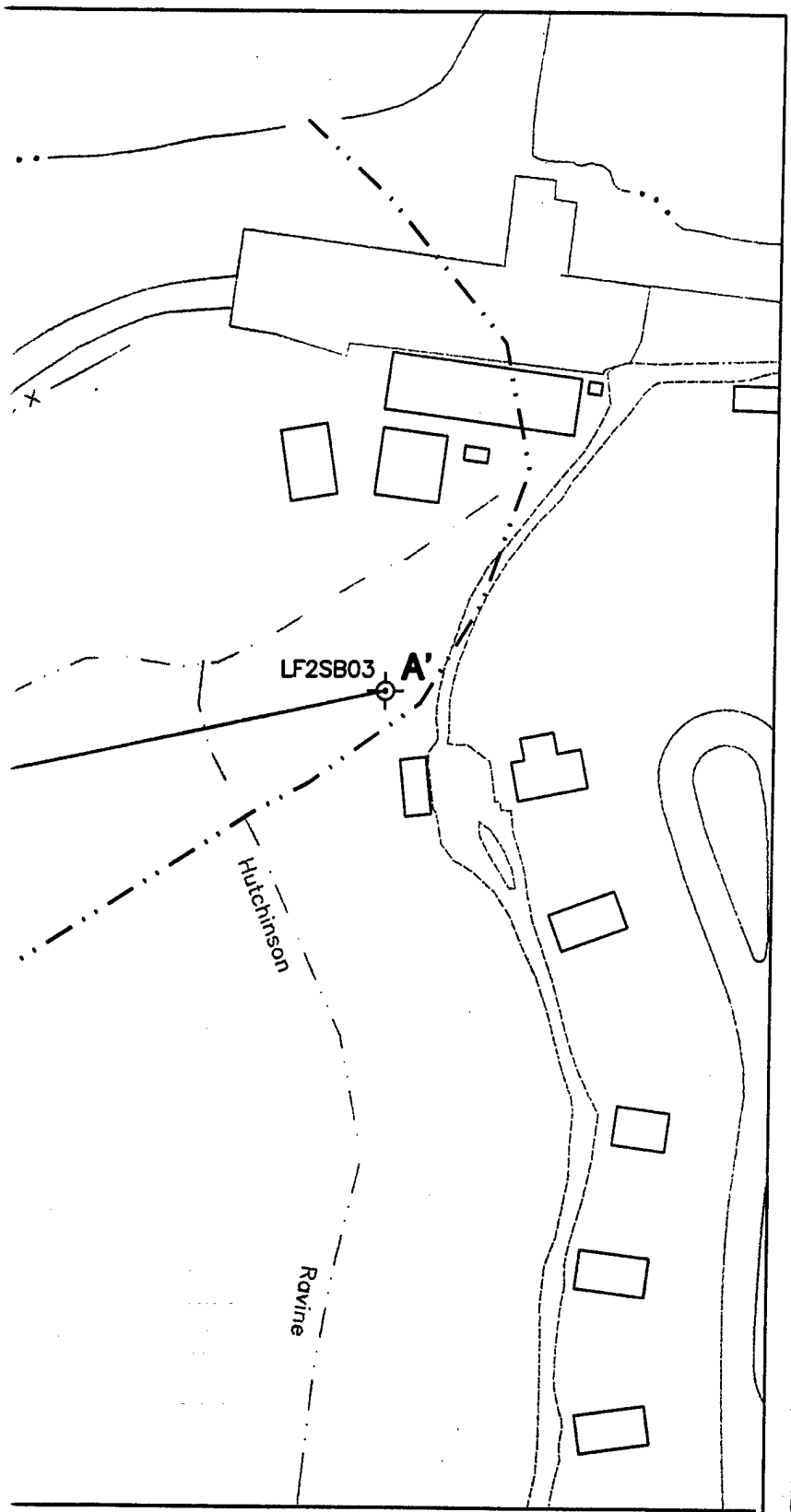


Figure 2-2

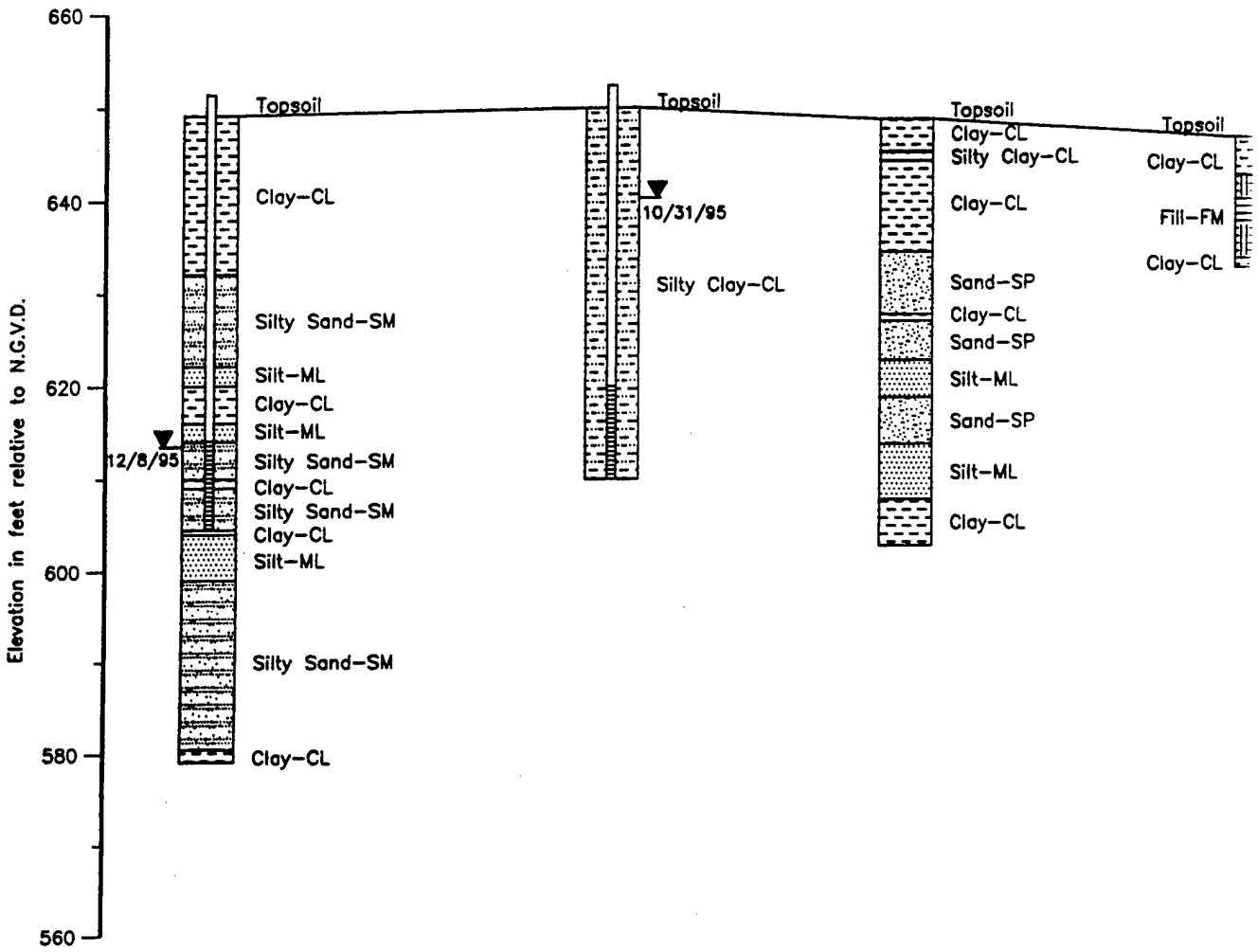
Cross Section Locations

Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

Fort Sheridan, Illinois

LF2SB14/LF2MW11 LF2SB01/LF2MW01 LF2SB11 LF2

A



Elevations relative to National Geodetic Vertical Datum (N.G.V.D.)

▼ Static Water Level
11/30/95

Horizontal Scale:
0 100
feet

Vertical Exaggeration 5x

QST

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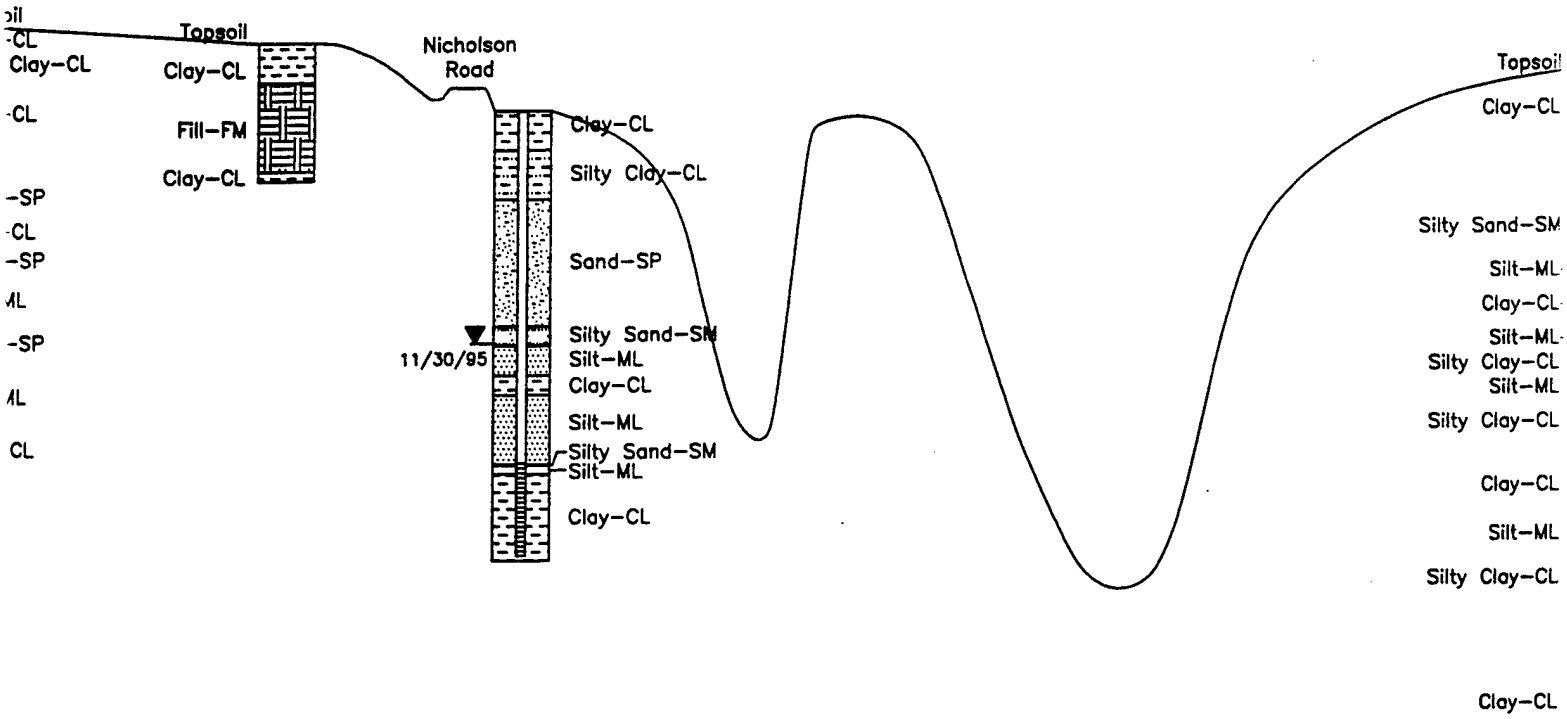
Soil Classification Abbreviation Explanation

- CH – Inorganic clays of high plasticity
- CL – Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays.
- FM – Fill material, concrete, brick etc.
- GC – Clayey gravels, gravel-sand-clay mixtures.
- GM – Silty gravels, gravel-sand-silt mixtures.
- GP – Poorly graded gravels, gravel-sand mixtures, little or no fines.

MH –
ML –
NL –
SC –
SM –
SP –
SW –

(1)

LF2TP01 LF2SB10/LF2MW10 Hutchinson Ravine L



anation

of high plasticity

of low to medium
ly clays, sandy clays,

ncrete, brick etc.

gravel–sand–clay

ravel–sand–silt

gravels, gravel–sand
or no fines.

MH – Inorganic silts, micaceous or diatomaceous fine sandy or silty soils.

ML – Inorganic silts and very fine sands, silty or clayey fine sands or clayey silts with slight plasticity.

NL – Not logged

SC – Clayey sands, sand–clay mixtures.

SM – Silty sands, sand–silt mixtures.

SP – Poorly graded sands, gravelly sands, little or no fines.

SW – Well graded sands, gravelly sands, little or no fines.

Soil Pattern Explanation

SP–Gravelly Sand

SP–Sand

SM–Silty Sand

ML–Silt

FM–Fill Material

CL–Sandy Clay

CL–Silty Clay

CL–Clay

Figure 2-3

Cross Sectio

Final RI/BRA for the
Beach Area Study A
Surplus Operable U

Fort Sheridan,

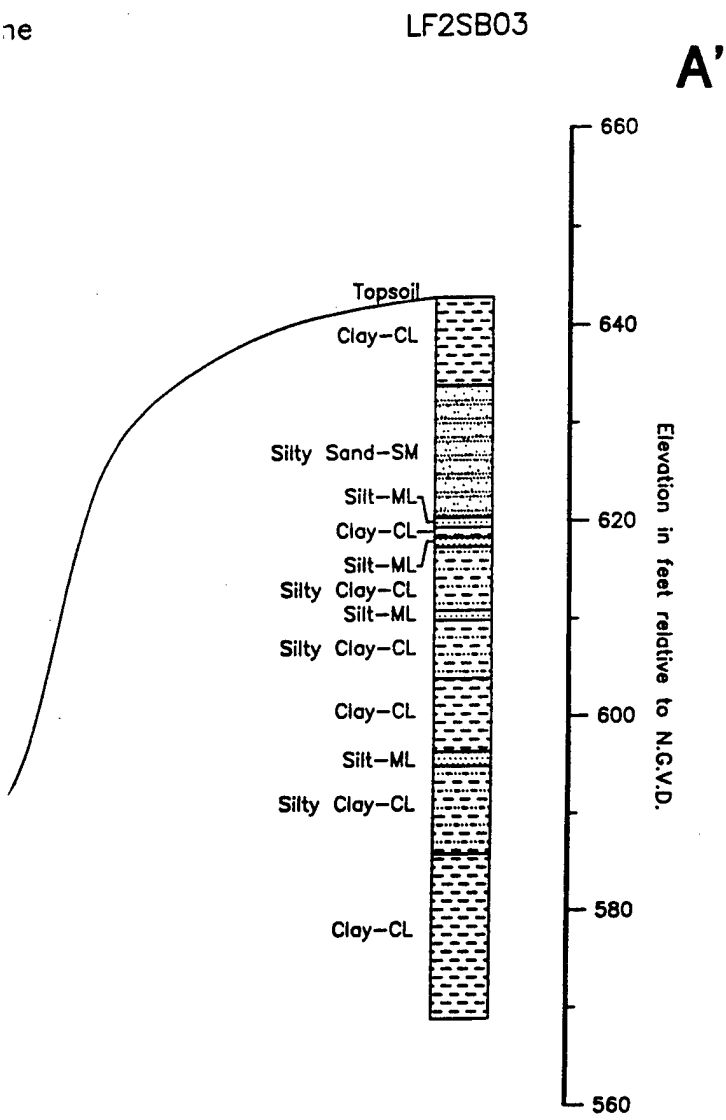


Figure 2-3

Cross Section A-A'

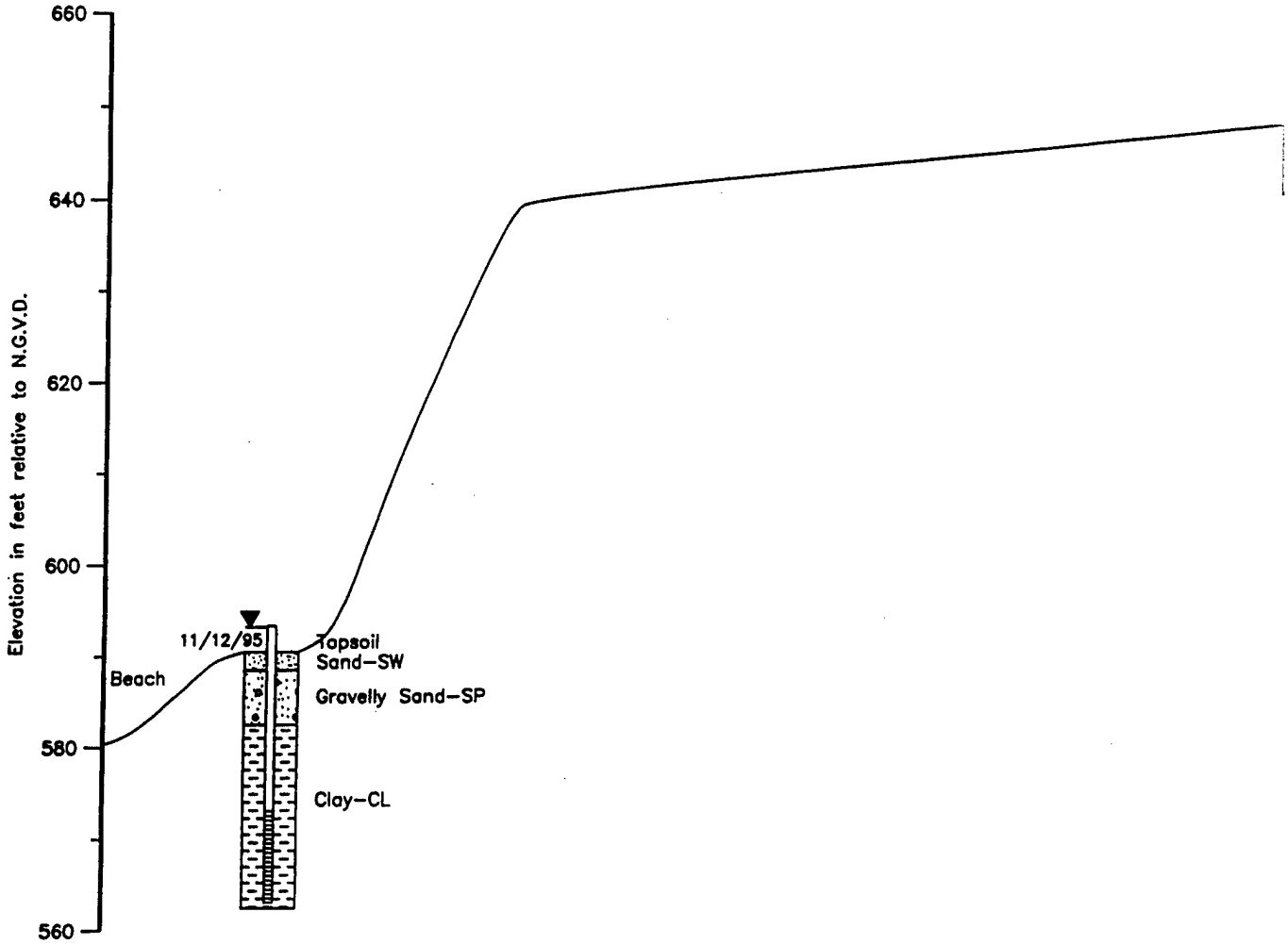
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

Fort Sheridan, Illinois

LF2MW05D

LF

B



Elevations relative to National Geodetic Vertical Datum (N.G.V.D.)

▼ Static Water Level
11/12/95

Horizontal Scale:
0 50
feet

Vertical Exaggeration 2.5X

Soil Classification Abbreviation Explanation

CH – Inorganic clays of high plasticity

CL – Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays.

FM – Fill material, concrete, brick etc.

GC – Clayey gravels, gravel–sand–clay mixtures.

GM – Silty gravels, gravel–sand–silt mixtures.

GP – Poorly graded gravels, gravel–sand mixtures, little or no fines.

MH – Inorg diato

ML – Inorg silty silts

NL – Not

SC – Claye

SM – Silty

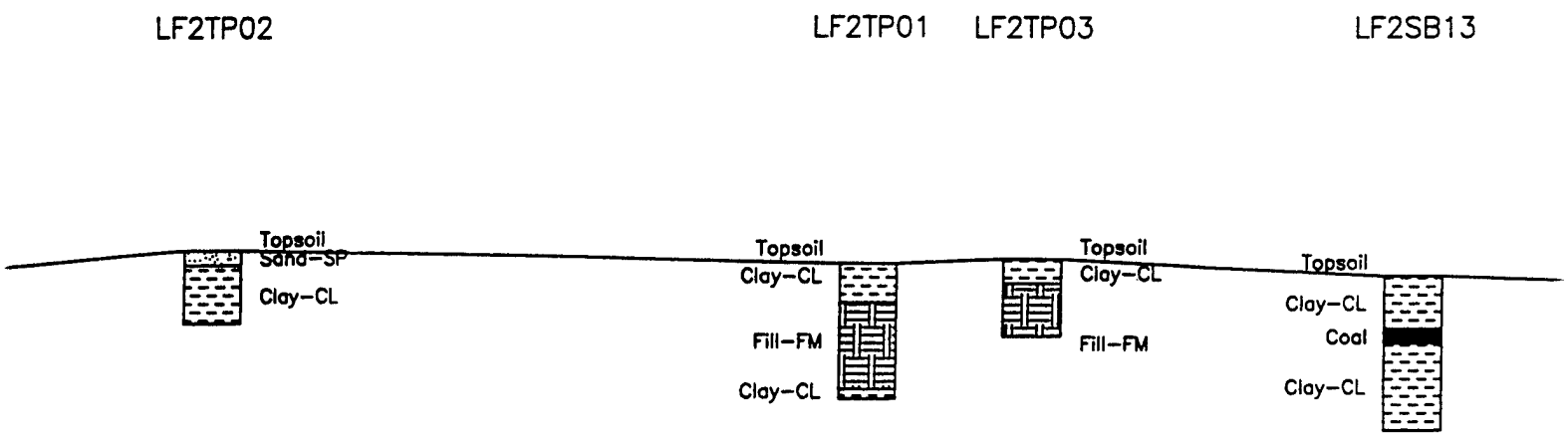
SP – Poorl little

SW – Well little

QST

JCF 05/08/97
Revised JCF 03/10/98

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~FSOUBB



MH – Inorganic silts, micaceous or diatomaceous fine sandy or silty soils.

ML – Inorganic silts and very fine sands, silty or clayey fine sands or clayey silts with slight plasticity.

NL – Not logged

SC – Clayey sands, sand–clay mixtures.

SM – Silty sands, sand–silt mixtures.

SP – Poorly graded sands, gravelly sands, little or no fines.

SW – Well graded sands, gravelly sands, little or no fines.

Soil Pattern Explanation

SP–Gravelly Sand

SP&SW–Sand

SM–Silty Sand

ML–Silt

FM–Fill Material

CL–Sandy Clay

CL–Silty Clay

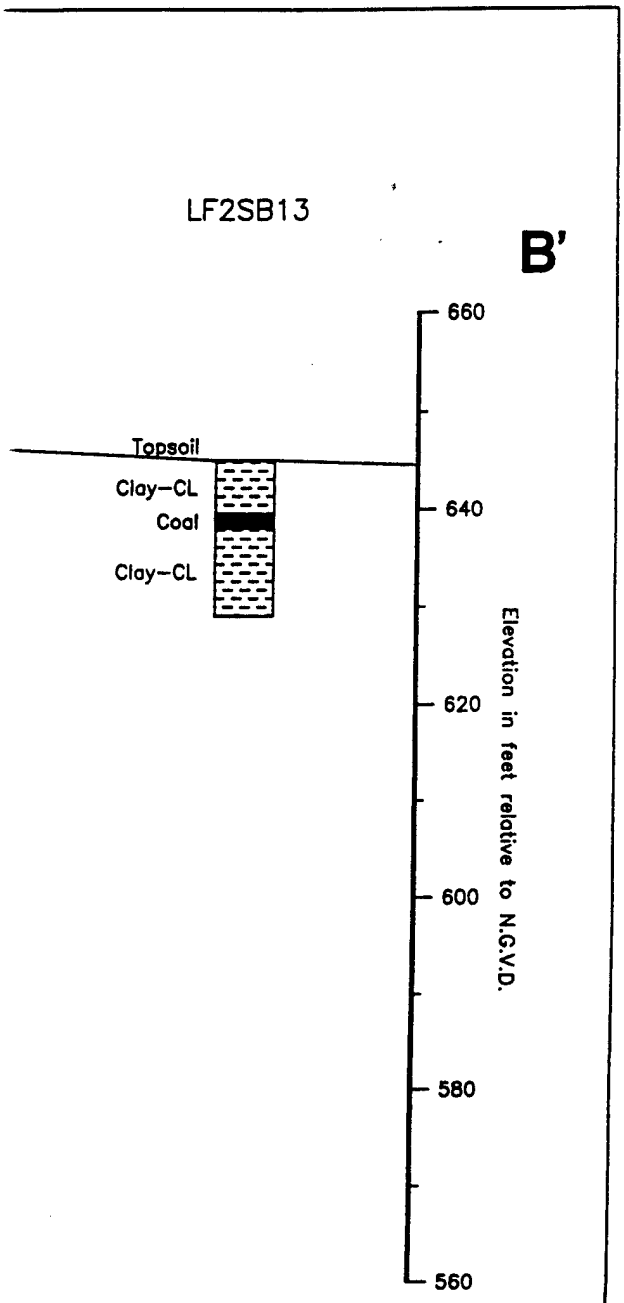
CL–Clay

Figure 2-4

Cross Section B-B'

Final RI/BRA for the Ravines Beach Area Study Areas of 1 Surplus Operable Unit

Fort Sheridan, Illinois



gure 2-4

ross Section B-B'

al RI/BRA for the Ravines and
ach Area Study Areas of the
rplus Operable Unit
t Sheridan, Illinois

3.0 Study Area Investigative Methods

Methods used to investigate the Ravines and Beach Area study areas ranged from a review of historical records to collection of sediment and surface water samples. The following sections discuss the field methods used in the evaluation of the ravines and Beach Area study areas. Except where site-specific conditions required a variance, the methods used were in accordance with the approved methodologies discussed in the OQAPP and specific SAPs for the various phases of work.

3.1 Records Research

Prior to the preparation of the SAPs for the Surplus OU, the available information on the historical use of Fort Sheridan property was evaluated to identify areas where mission related activities may have generated environmental concerns. Data sources included maps and correspondence from the archives at Fort McCoy in Wisconsin, previous installation assessments conducted by Gross *et al.* (1982), ESE (1987), and ANL (1989); the Phase I Draft Final RI Report (ESE, 1992); and the aerial photograph evaluation (EPIC, 1990).

Evaluation of these data sources revealed several existing and former areas of potential environmental concern. The background and scope-of-work development for the SAPs were based on the information from the records search. The Phase I Installation SAP and the Phase II, and III Surplus OU SAPs contain additional background information regarding the Surplus OU (E.C. Jordan, 1990; ESE, 1995d and 1996a).

3.2 UXO Avoidance Surveys

A 100 percent coverage UXO avoidance survey was conducted along the Beach Area from the high water line to the rip rap line at the base of the bluff. The survey was conducted to clear the way for the completion of Phase I soil borings and monitoring wells. The UXO survey was completed using a 40-foot grid and a dual flux gate magnetometer for ferrous metal detection and a ferrous/non-ferrous metal detector. Further details of the survey can be found in the Draft Final RI/BRA Report (ESE, 1992).

During the Phase II field work, intrusive activities in the Beach Area were overseen by a UXO escort team. No items of UXO were identified during the Phase II RI field activities. A letter report on the UXO avoidance survey activities is included as Appendix F.

A UXO clearance, not directly related to the RI activities, was conducted in 1996 by Human Factors Applications, Inc. (HFA) on a 38-acre parcel covering the northeast corner of the Surplus OU (HFA, 1997). This area encompassed the LF2/SARN and Beach Area study areas and also included a study

area designated as the UXO Area in the Final Sampling Results and Data Evaluation Report for the Miscellaneous Surplus OU Study Areas (Final Miscellaneous Study Areas DER Report) (QST, 1997). The UXO clearance was conducted using Schonstedt 52CX magnetometers. A 100-foot by 100-foot grid network was established to control the clearance. Within each established grid, the UXO team maintained 5-foot wide search lanes throughout the grid using 1/4-inch rope. A UXO specialist walked the lanes with the magnetometers searching for subsurface anomalies. Once an anomaly was located, it was marked with a pin flag and investigated to a depth of 4 feet. Several UXO items were identified during the HFA clearance. None of the items were within the Beach Area boundary.

The HFA clearance resulted in a determination that the 38-acre parcel and the Beach Area were cleared to a depth of 4 ft-bgs. The bluff face was only cleared to a depth of 1 ft-bgs due to the presence of scrap metal, which interfered with the survey equipment.

3.3 Surface Soil Sampling

Surface soil sampling associated with Surplus OU RI study areas was conducted in accordance with Section 4.7.2 of the approved OQAPP with the exception of the following deviation: some surface samples were collected from the 0.5 to 2.0 ft-bgs interval due to excess gravel and/or rubble at the surface.

Surface soil samples were collected from the top 6 inches of soil directly beneath sod, gravel, or pavement when possible. If surface soil samples could not be collected within 12 inches of the surface due to the presence of fill, the sample point was collected deeper as stated above. In any case, the sampled interval corresponded to the uppermost interval encountered directly below the gravel or pavement.

Surface soil samples were collected using stainless-steel hand trowels and/or a hand auger. Each sample was screened by headspace analysis using a photoionization detector (PID) to evaluate the presence of organic vapors in the sample headspace. The sampling device was decontaminated between each use and wrapped in aluminum foil. Decontamination was performed in accordance with Section 4.12 of the OQAPP.

Samples requiring volatile organic compound (VOC) analysis were filled first and packed to minimize headspace in the jar. The remaining portions of the sample were then transferred to the appropriate sample containers for additional analyses.

Samples were labeled in the field at the time of sampling, placed in a cooler on ice, and chilled to 4 degrees Celsius (°C). Strict chain-of-custody (COC) protocols were followed throughout sample custody. Photographs of surface soil sampling are included in Appendix G.

3.4 Soil Borings

Phase I RI soil borings were completed in accordance with U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) requirements (USATHAMA, 1987). Phase II RI soil borings were completed in accordance with the approved OQAPP (ESE, 1995a). No deviations from the OQAPP were implemented. Beach Area soil borings were completed to depths ranging from approximately 8.5 to 35 ft-bgs using either 6.25-inch or 4.25-inch internal diameter (ID) hollow stem augers. Soil borings were advanced using an Ingersol-Hurricane 300 or Gus Pech Brat 22R truck mounted drilling rigs. The size of the augers used depended upon the sample collection technique employed. Samples were collected using a split-spoon sampler or a Laskey continuous sampler. Soil samples were collected continuously using 4-inch outside diameter by 5-foot long Laskey sample tubes or using a 3.0-inch outside diameter by 2-foot long split-spoon sampler with 6-inch long brass inserts. Each sample was screened by headspace analysis using a PID or organic vapor meter (OVM). Only one method was used per sample interval and the method used was based on the conditions encountered.

After each 5-foot advancement of the Laskey sampler was completed, the sampler was retrieved to the surface and disassembled to procure the soil sample contained within the plastic sleeve inside the sampler. This procedure was repeated for each 5-foot interval until boring completion. After the borings were completed and the 4.25-inch augers removed, 6.25-inch augers equipped with a center bit assembly were used to enlarge the boring for installation of monitoring wells.

Split-spoon techniques involved using a 3-inch diameter, 2-foot long spoon lowered to the bottom of the borehole through the augers. Samples were collected by driving the spoon into undisturbed sediments with a 140-pound hammer. After each 2-foot sample was collected, the augers were advanced 2 feet to the bottom of the previous sample interval and the procedure repeated until boring completion.

At some locations (FTRSB01 and FTRSB02), soil borings were completed using a 4-inch outside diameter stainless-steel hand auger. This procedure was followed in those areas where the soil borings to be completed were quite shallow (generally less than 5 ft-bgs). Soil samples from soil borings installed by hand auger were collected with a slide-hammer driven 2-inch diameter, 6-inch long split-spoon sampler with a brass insert.

For discrete samples collected using Laskey sample tubes or brass tubes, a bentonite slurry seal was applied over each end of the encapsulated sample using a Nitrile sampling glove and capped with aluminum foil and a plastic cap. The plastic caps were secured with duct tape. Samples were labeled in the field at the time of sampling, placed in a cooler on ice, and chilled to 4°C. Strict COC protocols were followed throughout sample custody.

Soil cuttings were containerized in 55-gallon drums and appropriately labeled. The drums were stored inside B86 until a determination of their disposition could be made. Upon completion, boreholes were backfilled with hydrated bentonite pellets or cement bentonite grout. The bentonite seal and grout was hydrated using potable water obtained from the Fort Sheridan water supply. Fort Sheridan obtains its water from the City of Highland Park municipal water supply system. The grout consisted of a 20:1 portland cement/bentonite powder mixture.

The geology encountered was recorded on the field boring logs by the geologist at the time of boring advancement. Field logs were eventually transferred into electronic format using GTGS software. Boring logs are presented in Appendix B. Photographs of drilling and sampling techniques are included in Appendix G.

3.5 Permanent Monitoring Well Construction and Sampling

Twelve permanent monitoring wells were constructed during Phase I in the Beach Area. Well casings and screens are threaded flush-jointed 4-inch schedule 40 polyvinyl chloride (PVC) well pipe. For shallow monitoring wells (<15 ft-bgs), the well screens consist of one 5-foot section of PVC 0.010-inch slot continuous wire-wrap construction and a PVC end plug. For deeper monitoring wells, the well screens consist of one 10-foot section of PVC 0.010-inch slot continuous wire-wrap construction and a PVC end plug. No adhesives or solvents were used during installation. Prior to well installation, casing materials were washed with a high pressure steam cleaner and wrapped in plastic until used. In most cases, the well screen was installed to straddle the uppermost water-bearing unit encountered to allow for seasonal fluctuations in groundwater levels. Nested wells were installed at several locations. In these instances, the deeper wells were installed with the top of their screened interval 15 to 25 feet below the bottom of the upper screened interval. The filter pack extends from approximately 6 inches below the bottom of the well screen to a minimum of 5 feet above the well screen. A hydrated bentonite pellet seal is present above the sand pack. The thickness of the bentonite pellet seal depended upon the depth to the well screen (ranges from 2 to 10 feet). The bentonite seal was hydrated using deionized (DI)/distilled water. For the stick-up monitoring wells the PVC well casing extended aboveground surface by approximately 2.5 feet. A notch was made on one side of the PVC casing to provide a point of reference for depth-to-groundwater measurements. The well was capped with a vented, expandable, 4-inch diameter locking protective cap. A 6-inch diameter by 5 foot locking protective outer steel casing was installed over the PVC casing. This outer casing was set at least 2 feet into a 2-foot by 2-foot by 4-inch concrete pad and painted with a bright orange rust inhibiting paint. A weep hole was drilled through the protective casing to allow water to drain from the inside of the casing. A metal identification tag indicating the well designation, installation date, well depth, well owner, and coordinates was permanently affixed to the outside of the protective casing.

Groundwater data from the Phase I RI were not validated and, therefore, are not used quantitatively in this report. Each of the monitoring wells were sampled twice during Phase II. A third sample was collected from monitoring wells during Phase III to support the ecological risk assessment. The sampling and analysis of the Beach Area wells was performed in accordance with the OQAPP. The sampling procedure and program is discussed in more detail in the OQAPP and the Phase II SAP (ESE, 1995a and 1995d).

3.6 Surface Water and Sediment Sampling

During the Phase I RI, sediment and surface water samples were collected from within Janes and Hutchinson Ravines. During the Phase II RI, surface water and sediment samples were collected from Janes Ravine, Hutchinson Ravine, and Lake Michigan for chemical analysis. During the Phase III RI, samples of surface water and sediment were collected from Janes, Hutchinson, and Schenk Ravines. Eight surface water and sediment samples were also collected from ravine stations in Janes and Hutchinson Ravines for chemical analysis and benthic invertebrate bioassay tests. Three background surface water and sediment samples were collected from areas of Janes and Schenk Ravines that were upgradient from areas potentially affected by mission-related constituents. In addition, a background sediment sample was collected from the outfall of Boles Loop Drain. These three background samples served as reference samples for the sediment toxicity testing.

Ravine sediment/surface water sampling stations were established in areas where pooled or flowing water was present. Surface water samples were also collected from these areas. Ravine sediment samples were collected in the following manner: A decontaminated stainless steel hand trowel was inserted into the sediment below where the surface water had been collected. The top 3 to 4 inches of sediment were removed with the trowel and transferred directly into the sample container. Upon filling the sample container, excess water was drained off, and the sample container was sealed and placed in a cooler. When sampling was completed at a sample point, the collected samples were iced down with wet ice. Lake sediment samples were collected following the same procedures used for ravine sediment sampling, with one exception: the lake sediment samples were collected approximately 10 feet off the Lake Michigan shoreline beneath about 1 foot of water.

Ravine surface water grab samples were collected at midstream and mid-depth. The laboratory-cleaned sample bottle was inverted and immersed into the water column and then re-righted into the direction of the current. In areas where there was no noticeable current, the sample bottle was re-righted in the upstream direction. Once the sample container was filled, it was sealed and placed into a cooler and iced. Samples that required preservatives or filtration were taken directly to the field office where the preservative and/or filtration was performed. During the collection of the water samples, efforts were taken to prevent disturbance of the sediments so as not to suspend particulate matter in the water column.

During Phase II and III sampling activities, water quality data (temperature, turbidity, pH, conductivity, dissolved oxygen) were collected at each sampling station prior to initiating sampling activities.

At the end of each day's ravine sediment/surface water sampling effort, the samples collected were prepared for shipment to the laboratory. This involved removing the meltwater from the coolers, adding additional wet ice, and preparing the COC documentation for each sample. Each cooler was then sealed with COC seals and packing tape and shipped overnight to the laboratory.

During the Phase I and III RI, surface water and sediment samples were collected at ravine (Janes and Hutchinson Ravines) and drain (Airport Drain and Boles Loop Drain) outfall locations. These samples were collected by filling a jar with water from the outfall then filling the respective sample jars from the first jar. Sample jars were triple-rinsed with water from the sampling location prior to collecting the sample. Field measurements of temperature, pH, and conductivity were collected from the sampled water during Phase III. Any preservatives required for the various analyses were added in the field. The samples were stored on ice in the field, then in the refrigerator at the field office (Phase I) or with wet ice in a cooler (Phase III) prior to being sent to the laboratory in coolers.

After the surface water sample was obtained, the sediment sample was collected. The sediment sample was obtained from the area where the outfall discharged onto the ground. The sample was obtained with a small sampling trowel. The sediment was placed into clean glass jars with Teflon™-lined caps and preserved by cooling to 4°C.

3.7 *In Situ* Permeability Tests

During Phase I field activities, slug tests or baildown tests were performed on nine monitoring wells subsequent to their installation. The test method used was determined by the recovery characteristics of each well observed during well development and pre-sample purging. Water levels in slug-tested wells were recorded using an Envirolab™ datalogger. Water levels in baildown tested wells were recorded manually using an ET-89 electric tape.

An assumption inherent in the analysis of slug/baildown test data is that the water level in the well to be tested is at equilibrium prior to the test. To establish this condition, water levels were measured in the wells manually to determine whether the wells were at equilibrium. Past experience at Fort Sheridan has revealed that wells typically take several weeks or even months to recover after bailing before groundwater samples can be obtained. Since the rate of recovery is very slow (the time versus drawdown curve is very flat) and the impressed drawdown from the baildown or slug test is an order of magnitude larger than the rise in water level that would occur during the test, it was decided that conditions were adequate for testing the wells provided that climatic or other pertinent factors did not change. Slug tests for wells that normalized using a trend effect or an assumed constant rate water level change based on water level measurements taken prior to the tests.

Monitoring wells B125MW01B, LF2MW06S, LF6MW04D, and LF7MW04S were tested using a slug-retrieval technique. First the equilibrium water levels were measured with an electric tape and recorded. Then a 5 pound per square inch (psi) transducer was inserted into the well to measure the water level. The transducer did not interfere with retrieval of the slug. After waiting for the water level to return to equilibrium, the transducer reading was recorded and a slug constructed of polyethylene was inserted into the well such that the entire slug was lower than the original water level. The water level in the well was then allowed to return to equilibrium conditions. During this time the Envirolab™ datalogger was programmed to collect water level measurements at the following intervals:

- 75 data points with one every 0.2 seconds;
- 165 data points with one every 1 second;
- 60 data points with one every 5 seconds;
- 24 data points with one every 10 seconds;
- 26 data points with one every 30 seconds; and
- one data point per minute until end of test.

Verification of equilibrium conditions in the well was done by comparing the current reading of the transducer to the one recorded prior to slug immersion. When equilibrium conditions prevailed, the datalogger was programmed to start collecting data a few minutes later. Approximately two seconds after the data logger started collecting data, the slug was removed from the well as quickly as possible. The datalogger recorded data at the previously mentioned time intervals until equilibration. Finally, the time/water level data were printed out prior to leaving the well to ensure that adequate data were collected.

Monitoring wells LF2MW08D, LF5MW04S, LF6MW04S, B208MW06, and B208MW07 were tested by bailing a volume of water from each well, manually measuring the water levels, and recording the time of measurement. Prior to conducting the test, the water level was measured with an electric tape capable of measuring water levels to the nearest 0.01 foot. Then a volume of water was bailed from the well with a 3-inch diameter 3-foot long bailer and water level measurements were recorded as quickly as possible. During the first few minutes of each test, the water levels (and corresponding times) were measured and recorded at short time intervals. As the test progressed, water levels were measured over longer intervals. The water bailed from the well was containerized and the volume was measured to the nearest 20 milliliters using a graduated cup. The known volume of water was used to calculate the impressed drawdown in the well based on the well inside diameter. Water level measurements were recorded at regular and increasing time intervals for a total of 6 hours for well LF2MW08D, 5 hours for well LF6MW04S, and 25 to 27 hours for the three remaining wells. Additional information on the slug/baildown test data, field methods, analysis, and interpretation are presented in Appendix E.

3.8 Decontamination Procedures

Phase I RI decontamination procedures were performed on split-spoons, Laskey samplers, and other sampling equipment after each use. This included thoroughly washing soil sampling equipment with a DI/Liquinox™ mixture followed by a DI rinse. Augers were steam cleaned between boring locations.

Phase II and III RI decontamination procedures were conducted in accordance with Section 4.12 of the approved OQAPP (ESE, 1995a). No deviations from the OQAPP were implemented.

The source of DI/distilled water used during the Phase II and III RI equipment decontamination was supplied by Hinckley and Schmitt, Inc. Potable water used during equipment decontamination was supplied by the Highland Park Municipal water supply and obtained from B67 at Fort Sheridan. A sample of source water was collected during Phase II and Phase III from both the DI/distilled water and from the potable water supply. These samples were analyzed for the parameters specified for groundwater samples.

The following procedures applied to the decontamination of groundwater purging and sampling equipment (pumps, hoses, bailers):

1. Detergent wash/scrub (Alconox or Liquinox™); and
2. DI/distilled water rinse.

Water level probes and field instruments were rinsed with DI/distilled water, wiped dry with paper towels, and stored to prevent contamination during transit. Instruments that did not come in contact with sample materials, such as PIDs, were wiped with clean paper towels.

Drilling and excavation equipment such as augers, drill rods, bits, collars, and backhoe buckets were appropriately cleaned between each usage with a 1,250 psi steam cleaner. Potable water from Fort Sheridan was utilized.

The following procedure applied to the decontamination of split-spoons, split-spoon liners, surface water sampling collection jars, hand augers, hand trowels, and stainless steel bowls between sample points:

1. Liquinox™ wash and thorough potable water rinse;
2. Ten percent nitric acid rinse (applied from a spray bottle);
3. Thorough DI water rinse;
4. Pesticide-grade isopropanol rinse (applied from a spray bottle);
5. Air dry; and
6. Wrap in aluminum foil.

A temporary decontamination pad was constructed at the installation during the Phase II and III RI in a location central to the study areas. The decontamination pad measured approximately 20 feet by 20 feet and was constructed of plastic sheeting underlain by plywood. Wood timbers were set under the edges of the plastic sheeting to form a curb around the pad to contain rinsate. The decontamination site served to centralize drill rig decontamination operations and was chosen with the approval of the BRAC office. Upon completion of Phase II and Phase III field activities, the plastic sheeting was steam cleaned and discarded as domestic trash.

Disposable personal protective equipment (PPE) was contained in a 55-gallon drum until authorized for disposal. Rinsate water was containerized in 55-gallon drums and transferred to a 4,900-gallon aboveground storage tank located adjacent to B117. Water samples were collected from the tank water twice during Phase II activities, and once during Phase III activities. The samples were analyzed prior to each of the sanitary sewer discharge events for the analyte list required by the North Shore Sanitary District (NSSD). The water was discharged to the sanitary sewer under an NSSD permit.

3.9 Horizontal Coordinate and Vertical Elevation Survey

Phase I borings and monitoring wells were surveyed to provide horizontal coordinates and vertical surface elevations. In some instances, post buildings were surveyed to provide accurate locations relative to nearby study areas under investigation.

In December 1995, after completion of Phase II field work, the horizontal coordinates and vertical surface elevation of each soil boring and surface sample location were surveyed. Horizontal coordinates were measured in feet relative to the NGVD. Vertical elevations were measured to a minimal precision of 0.01 feet.

In October 1996, after completion of the Phase III field work, the horizontal coordinates and vertical surface elevation of each soil boring and surface sample location were surveyed. Horizontal coordinates were measured in feet relative to the NGVD. Vertical elevations were measured to a minimal precision of 0.01 feet.

3.10 Toxicity Testing

Toxicity testing was performed as part of the Phase III RI on two benthic invertebrates, *H. azteca* and *L. variegatus*. This testing was performed on control, reference, and ravine sediment samples. Static renewal acute toxicity tests were conducted on groundwater samples using the fathead minnow, *P. promelas*.

3.10.1 Whole Sediment Chronic Toxicity Tests

Whole sediment chronic toxicity tests were conducted using the freshwater invertebrate, *H. azteca*, on sediment Samples JRBSD01 through JRBSD03 and HRBSD01 through HRBSD05 collected from Janes and Hutchinson Ravines, respectively. The tests were conducted following American Society of Testing and Materials (ASTM) Guideline E 1383-94 entitled Standard Guide for Conducting Sediment Toxicity Tests with Freshwater Invertebrates (ASTM, 1995a). The effect criteria for the tests were survival and growth (length and dry weight). Further details are provided in the report presented in Appendix H.

3.10.2 Flow-Through Whole Sediment Bioaccumulation Tests

Flow-through whole sediment bioassays were conducted to examine the potential of selected constituents to bioaccumulate in the freshwater benthic invertebrate *L. variegatus*. The effect criterion for the bioaccumulation tests was the availability of adequate tissue for chemical analyses.

The bioassays were conducted following ASTM Guideline E 1688-95 entitled Standard Guide for Determination of Bioaccumulation of Sediment-Associated Contaminants by Benthic Invertebrates (ASTM, 1995b), the USACE Guidelines specified the Great Lakes Dredged Material Testing and Evaluation Manual (USACE, 1995), and QST in-house protocols. Six sediment samples were included in the study. Three of the samples were considered background, and three samples were considered downgradient of the Surplus OU areas potentially affected by mission-related activities.

Chemical analyses were performed on portions of the test sediments prior to the toxicity tests and on the *L. variegatus* tissues following the 28-day exposures and 24-hour depuration. The following parameters and USEPA methods were used: Metals (USEPA 6010 and 6020), explosives (USEPA 8330), pesticides/polychlorinated biphenyls (PCBs) (USEPA 8080), and semivolatiles (USEPA 8270). Further details are provided in the report presented in Appendix H.

3.10.3 Fathead Minnows

Definitive static-renewal acute toxicity tests were conducted with the fathead minnow, *P. promelas*, on groundwater samples collected from the Surplus OU. The effect criterion for the acute toxicity tests was mortality.

A total of three LF2 groundwater samples, three background groundwater samples, and one laboratory control sample were used in the toxicity tests. Tests were performed according to the procedures outlined in "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," EPA/600/4-90/027F (USEPA, 1990).

Further details regarding the Acute Toxicity Test are presented in the report Results of Acute Toxicity Tests of Fathead Minnows Exposed to Groundwater Samples from the Surplus OU, Fort Sheridan, Illinois presented in Appendix H.

3.11 Investigative Derived Waste (IDW)

Both solid and liquid IDW were generated during RI field work. The disposition of this IDW is discussed below.

3.11.1 Solid IDW

The solid IDW (soil cuttings, PPE, plastic) generated at Fort Sheridan during Phase II and III field operations at the Surplus OU was removed and taken to Woodland RDF landfill for disposal as a special waste. The IDW was characterized as special waste in accordance with the OQAPP and 35 IAC 808. Loading and removal of the IDW was observed and documented. The IDW was transported to the disposal facility and manifested in accordance with 35 IAC 809 protocols.

The following is a breakdown of the contents of each manifested load transported to the Woodland RDF landfill for disposal:

Manifest Number	Contents
Illinois (IL) 4958954	20 drums - IDW (soil)
IL 7250282	20 drums - IDW (soil)
	1 drum - plastic sheeting (Visqueen)
IL 7250434	20 drums - IDW (soil)
IL 7250435	18 drums - IDW (soil)
	1 drum - PPE
	2 drums - plastic sheeting (Visqueen)
	3 drums - previously used/unusable (empty)
IL 6120231	15 cubic yards IDW (soil)
IL 7121688	15 cubic yards IDW (soil)
IL 7121689	10 cubic yards IDW (soil)
IL 7250281	15 cubic yards IDW (soil)

3.11.2 Liquid IDW

Rinsate water was containerized in 55-gallon drums and transferred to a 4,900-gallon AST located adjacent to B117. Water samples were collected from the tank water twice during Phase II activities, and once during Phase III activities, and analyzed prior to each of the sanitary sewer discharge events. The liquid IDW and monitoring well purge water were discharged to the NSSD under discharge permit #96-ERC-01.

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4.0 Data Evaluation Baseline

The Fort Sheridan OQAPP provided protocols for evaluating the quality of the data collected for the RI. Among these protocols are the collection and analysis of rinsate blanks, trip blanks, and field duplicates to evaluate the efficacy of the decontamination procedures, sample custody, and sample collection methods, respectively. In addition, the analytical data were subjected to various laboratory quality assurance/quality control (QA/QC) protocols and independently validated.

4.1 Quality Control Samples

The findings of the various data quality evaluation protocols are presented in the following sections. The Installation Restoration Data Management Information System (IRDMIS) Level III analytical reports for the field QA/QC samples are provided in Appendix I.

4.1.1 Rinsate and Trip Blanks

Field equipment rinse (rinse) and trip blank samples were analyzed during the Phase I through Phase III sampling efforts as quality control (QC) samples to evaluate field sampling protocols. The number of rinse samples collected was dependant on the actual number of samples collected for each medium. Rinse samples were collected at a frequency of 5 percent per medium in accordance with the OQAPP for Phase II and III RI activities. Rinse samples for soil, sediment, and surface water sampling activities were collected from the sampling apparatus after it had been decontaminated, prior to use in additional sample collection. Rinse samples for groundwater were collected from an unused disposable high density polyethylene bailer. In addition, several rinse blanks were collected from the decontaminated pumps used to purge the monitoring wells. A summary of the constituents detected in the Phase II and III rinse blanks is provided in Table 4-1. As the rinse blanks collected during monitoring well sampling are not study area specific, all Phase II rinse blank samples related to groundwater sampling are included.

A few total and/or dissolved metals, acetone, phenol, and total dissolved solids were detected in several rinse blanks collected during Phase II and III sediment/surface water and groundwater sampling activities. In addition, a few of the rinse blank samples collected from bailer pumps contained detectable levels of bis(2-ethylhexyl)phthalate, alpha-hexachlorocyclohexane, and endosulfan sulfate. The acetone detections are all at concentrations less than three times the method detection limit (MDL) and are likely related to laboratory contamination. The metals detected in these rinse blank samples are all well below the background surface water and groundwater levels (see Section 4.2). In addition, the concentrations of metals detected were much lower than the concentrations detected in the study area sediment, surface water, or groundwater samples. Therefore, even if the metals detected in the rinse blanks affected sediment, surface water, or groundwater analytical results, the patterns described later in this report would still be evident. Phenol was not detected above its MDL in any of the surface water or

groundwater samples collected from the ravines and Beach Area study areas. Bis(2-ethylhexyl)phthalate, alpha-hexachlorocyclohexane, and endosulfan sulfate were detected in groundwater samples collected from the Beach Area monitoring wells during Phase II sampling activities. However, with only one exception [endosulfan sulfate detected in the 1/22/96 LF2MW05D sample at 0.056 micrograms per liter (μg/L], the concentrations of bis(2-ethylhexyl)phthalate, alpha-hexachlorocyclohexane and endosulfan sulfate detected in the groundwater samples were below 10 times their respective MDLs (the practical quantitation limit).

The presence of bis(2-ethylhexyl)phthalate, alpha-hexachlorocyclohexane, and endosulfan sulfate in one or more of the bailer rinse blanks suggest they were already present in the bailers at low concentrations before the rinsate sample was collected. The presence of bis(2-ethylhexyl)phthalate, alpha-hexachlorocyclohexane, and endosulfan sulfate in one or more of the pump rinse blanks suggest they were already present at low concentrations within the pumps or associated tubing or these constituents were not completely removed during decontamination activities after the pumps were used to purge monitoring wells. It should be noted that the pumps were only used to purge monitoring wells, not to sample them.

One of the pump rinsate blanks (RINSEKECKP) had alpha-hexachlorocyclohexane (0.0058 µg/L) and nitrobenzene (0.139 µg/L) detected in it. The pump from which rinse sample RINSEKECKP was collected was used to purge monitoring well LF6MW01 just prior to decontamination and rinse sample collection. Monitoring well LF6MW01 is located in Landfill 6 on the DoD OU and is not a Surplus OU RI study area.

One trip blank was shipped with each cooler containing samples to be analyzed for VOCs. Consequently, the number of trip blanks was determined by the number of coolers. None of the trip blanks collected during Phase I sediment and surface water sampling activities had detections of VOCs. Trip blank data from the Phase I RI groundwater sampling are not included as these data were not validated (see Subsection 4.1.3). Two of the trip blanks collected during Phase II RI activities had detections of acetone. The acetone was detected in the 10/27/95 and 11/13/95 trip blanks at concentrations of 11 and 10 µg/L, respectively, slightly exceeding the MDL of 10 µg/L. Acetone and methylene chloride are common lab contaminants and it is believed that the low concentration detections in the Phase II trip blanks and/or Phase I/II samples of these constituents are from that source.

4.1.2 Water Supply Samples

Three water supply samples were collected in the Phase II effort to check the sources of water used for decontamination and drilling operations. Samples were collected from the water supply at B67 used for decontamination of drilling equipment (DECONWATER), the water tank on a drilling rig (DRILLINGWA), and the DI water used for decontamination of surface soil/sediment/surface

water/groundwater sampling equipment (DI-1). A summary of the constituent concentrations detected in these water samples is presented in Table 4-2.

The DECONWATER sample contained detectable concentrations of alkalinity (1 mg/L), chloride (1.6 mg/L), total mercury (0.00398 mg/L), sodium (0.395 mg/L dissolved and 0.739 mg/L total), and total dissolved solids (32 mg/L). Chloride and sodium were detected at concentrations significantly below background levels (see Section 4.2). Mercury was not detected above MDLs in any of the groundwater samples collected from the Surplus OU RI study areas. Even if the constituents detected in the DECONWATER sample had affected soil analytical results, the patterns described later in this report would still be evident.

The DRILLINGWA sample contained detectable concentrations of anthracene (0.000195 mg/L), chloride (9.6 mg/L), fluoride (9.8 mg/L), hardness (145 mg/L), sulfate (98 mg/L), total dissolved solids (217 mg/L), bromodichloromethane (0.003 mg/L), chloroform (0.0031 mg/L), and several total and dissolved metals. The detected concentrations of chloride, sulfate and total and dissolved metals (with the exception of zinc) are below the background levels (see Section 4.2). Even though fluoride exceeds background concentrations in the drilling water, it was not analyzed for in the Surplus OU RI study area groundwater samples. Concentrations of zinc detected were much lower than the concentrations detected in the study area groundwater samples. Bromodichloromethane and chloroform are common lab contaminants and it is believed that the low concentration detections in the DRILLINGWA sample are from that source. In addition, even if the constituents detected in the DRILLINGWA sample affected analytical results, the patterns described later in this report would still be evident.

The DI-1 sample contained detectable concentrations of chloride (1.3 mg/L), nitrogen (0.4 mg/L), calcium (dissolved, 0.354 mg/L), chromium VI (total, 0.473 mg/L), iron (total, 0.111 mg/L), magnesium (dissolved, 0.163 mg/L), sodium (dissolved, 0.446 mg/L and total, 0.286 mg/L), total dissolved solids (19 mg/L), and endosulfan sulfate (0.000029 mg/L). The detected concentrations of chloride, nitrogen, calcium, iron, magnesium, and sodium are below background groundwater levels (see Section 4.2). Chromium VI was not detected above MDLs in any of the samples collected from the Surplus OU study areas. If the constituents detected in the DI-1 sample had affected the analytical results, the patterns described in this report would still be evident.

The word "patterns" as used in the preceding paragraphs refers to trends in the study area data including, but not limited to, the presence or absence of certain constituents at a given sample location. The presence or absence of constituents at study areas is discussed in Sections 5.0 and 6.0. It is possible that constituent concentrations in a water source could affect the ability to detect data "patterns" at study areas. However, the types of constituents detected in the water source samples are not similar enough to the study area detections, nor were their concentrations of a magnitude sufficient to mask the detection, or lack of detection, of a constituent at a study area.

4.1.3 Duplicate Samples

Duplicate samples were also collected and analyzed during the Phase I through Phase III sampling efforts to evaluate field sampling protocols. Duplicate samples were collected at a frequency of 10 percent per medium in accordance with the OQAPP for Phases II and III. As discussed in detail in the Phase I Data Usability Evaluation for Fort Sheridan (Appendix J), concentrations of given constituents in primary samples and their field duplicates often vary significantly. This is particularly true for soil samples; however, water samples commonly exhibit a similar degree of variability between primary and duplicate samples.

The Phase I Data Usability Evaluation notes that there is no regulatory guidance for evaluating the correlation between primary and duplicate samples. One of the few statistical parameters available for comparing two data points is the relative percent difference (RPD). RPD is a measure of precision and is commonly applied to duplicate measurements. The Phase I Data Usability Evaluation establishes an RPD of less than or equal to 133 as an acceptable level of precision between primary and duplicate samples separated in time based on the observation that it is common for real time duplicates to vary by a factor of five or more (RPD of greater than or equal to 133).

The primary samples and their respective duplicates for the ravines and Beach Area study areas are presented in Table 4-3. To focus the analysis, only the results where the primary and duplicate analysis varied by more than 50 percent (a 0.5 fold difference) are presented in the table. The RPD is calculated for each of these data pairs and presented in the table. As this analysis indicates, only 5 of the more than 500 data points (<1 percent) had calculated RPD's that exceeded 133 percent. As was noted previously, the purpose of the duplicate sampling was to evaluate the field protocols and the extent to which sources of analytical error were introduced in the field. The excellent correlation between the primary and duplicate data pairs indicates that field introduced sources of error were negligible.

It should be noted that 5 percent of the samples were spiked [i.e., matrix spike/matrix spike duplicate (MS/MSD)]. However, this QC technique assists in evaluation of laboratory procedures not field samples. The MS/MSD technique does not reflect on field sampling protocol and is not discussed here.

4.1.4 Data Validation and Phase I Data Usability Evaluation

The Phase I soil, surface water, and sediment data were not validated by OQAPP approved methods during Phase I.

The soil and sediment data from Phase I are useful, however, and were submitted for independent data validation. The data validation report on these data flagged the pesticide/PCB data as suspect. The primary reason for suspicion was the analytical methods, which were not OQAPP approved. To assess

the usability of the data, a sampling program designed to resample 10 percent of the flagged Phase I locations was implemented in February 1996. The resamples were then analyzed by OQAPP approved methods and the data compared to the Phase I data.

The data usability report comparing the Phase I data and their resampled counterparts is included as Appendix J. The report concluded that the Phase I soil, sediment, and surface water data were usable, with the exception of the thallium data. These data were determined to be unreliable. Therefore, only Phase II and III thallium data are used in the ravines and Beach Area study areas RI/BRA. These data are sufficient to characterize the ravines and Beach Area study areas and support risk evaluations in the BRA.

The background, Phase II, and Phase III data were submitted by the Army for independent validation according to the OQAPP. This data validation process is complete and the final reports concluded that the data are valid. Summaries of each of the validation reports are included as Appendix K.

4.1.5 Method Detection Limits

The MDLs of constituents analyzed for in the Surplus OU RI were within OQAPP requirements, with the following exceptions. When a sample required dilution, the MDL was raised accordingly (e.g., if the sample was diluted by a factor of five the MDL went up by a factor of five). In addition, in a few samples, the MDL was raised due to matrix interferences. These adjustments do not affect the validity or usability of the data. The independent data validation also addresses the issue of MDLs. Specific MDL issues evaluated by the independent data validation are potential method blank contamination (raises MDLs) and the validity of the reported MDL (i.e., has the MDL of the method/instrument been properly evaluated/documented, etc.).

4.2 Background Baseline

Background sediment, surface water, and groundwater data were collected from several locations believed to be previously unaffected by Fort Sheridan mission activities. The background samples were collected to facilitate the development of a statistically defensible background database. This background database forms the basis for comparison with study area data to evaluate the nature and extent of affected environmental media (i.e., media containing constituents as a result of releases from mission-related activities). The background sampling locations and laboratory analytical data are further discussed in the Final Background Sampling and Data Evaluation Report (ESE, 1997).

4.2.1 Soil, Groundwater, Sediment, and Surface Water

The background data set compiled for soil and groundwater during the background sampling is complete and extensive enough to establish a statistically defensible background database. Upper tolerance limits

(UTLs) were calculated for constituents detected in the background groundwater at Fort Sheridan in accordance with the Final Revised Final Technical Evaluation Plan (TEP) (ESE, 1996c). The statistical evaluation of inorganic constituents in the background soil indicated that subsetting the data by depth into surface soil (0 to 1 ft-bgs) and subsurface soil (>1 ft-bgs) is appropriate. The Final Background Sampling and Data Evaluation Report (ESE, 1997) discusses the statistical treatment of the background constituent data and subsequent subsetting by soil depths. UTLs were not calculated for the background sediment and surface water data sets. However, the background data sets for sediment and surface water are adequate for qualitative comparison with the study area data.

The background database is also adequate to establish which constituents are not likely to be detected in the background at Fort Sheridan. Consequently, no detection of a constituent in the background data set is assumed to be evidence that the constituent is absent in the background setting at Fort Sheridan. Therefore, the background screening level for constituents not detected in the background data set is set at that constituent's MDL.

4.2.2 Toxicity Testing Surface Water and Sediment Background

Background ravine and beach surface water and sediment samples were collected during Phase III to provide background data for the ecological toxicity testing. The Phase III background ravine surface water/sediment stations consist of Stations JRBSW/SD04, JRBSW/SD05 (Janes Ravine) and SRBSW/SD01 (Schenk Ravine). Constituents detected in these background sediment and surface water samples are presented in Tables 4-4 and 4-5, respectively. Water quality field measurements are shown below.

Sample No.	Temperature	pH	Conductivity	Dissolved Oxygen	Turbidity
JRBSW04	11.92	7.81	1288	10.30	3.90
JRBSW05	12.85	7.37	907	10.54	225
SRBSW01	19.16	7.12	2760	3.55	12.81

The Phase III background beach sediment sample was collected at Boles Loop Drain (BLDBSD01). The field observations recorded for the Phase III toxicity testing background surface water/sediment stations are presented below.

Recorded water temperature ranged from 11.92°C to 19.16°C. There was a slight variation in the pH of the surface water, ranging from 7.12 to 7.81. The highest and lowest pH values were obtained at locations JRBSW04 and SRBSW01, respectively.

Conductivity ranged from 2,760 to 907 millimhos per centimeter (mmhos/cm). The lowest conductivity was obtained at location JRBSW05. The highest conductivity was recorded at location SRBSW01.

Dissolved oxygen ranged from 10.54 to 3.55 mg/L. The two surface water samples in Janes Ravine had the highest levels of dissolved oxygen. Location SRBSW01 had the lowest dissolved oxygen concentration of 3.55.

Turbidity ranged from 225 to 3.90 nephelometric turbidity units (NTUs). The highest level was recorded at location JRBSW05. The lowest level was recorded at location JRBSW04.

Samples JRBSD04 and JRBSW04 were collected from a pool within the stream channel. A duplicate sediment sample was also collected at this sampling station. Water depths within the pool ranged from 2 to 20 inches. There was a constant flow of water through the station during the sampling effort. The sample location was in a forest habitat dominated by maples (*Acer*) and basswood (*Tilia*). Tracks of deer and raccoon were observed in the area of the sampling station. While the surface water samples were collected from the center of the pool, the sediment samples were collected from various locations within the pool due to the type of sediment present and the requisite volume of material required for analysis purposes. The sediment within the pool was composed of gravel, small rocks, coarse sand, and silt. There was a fine layer of silt and detritus on the surface of the sediment.

Samples JRBSD05 and JRBSW05 were collected from a pool within the stream channel. This sample station is approximately 760 feet upstream from sample station JRBSW/SD04. Water depths within the pool ranged from 1 to 7 inches. There was a constant flow of water in the stream during the sampling effort. The sample location was in a forest habitat dominated by maples (*Acer*) and basswood (*Tilia*). While the surface water sample was collected from the center of the pool, the sediment samples were collected from various locations within the pool due to the type of sediment present and the requisite volume of material required for analysis purposes. The sediment within the pool was composed of boulders, cobbles, gravel, small rocks, coarse sand, and fine sand.

Samples SRBSD01 and SRBSW01 were collected on September 10, 1996 from a pool located in a bend of the stream channel located approximately 150 feet downstream from where the stream emerges from a culvert. The stream channel is littered with debris that appears to be associated with the residences located in the area. The debris included bicycle parts, lumber, and sanitary trash. Water depths within the pool ranged from 1 to 4 inches. There was no flow of water through the station during the sampling effort. The sampling station was located in a forested area dominated by maple (*Acer*) and elm (*Ulmus*). The stream bed was composed of coarse sand, silt, detritus, and a small amount of gravel. The sediment within the pool was composed of detritus in the upper layer with coarse sand, silty clay and detritus below.

Sample BLDBSD01 was collected on September 12, 1996 about midway between where the ravine reaches the beach and the water level of Lake Michigan. Water depths ranged from 1 to 9 inches. There

was a constant flow of water in the stream during the sampling effort. The sediment consisted of small rocks, gravel, coarse sand, and fine sand.

4.3 Evaluation of *L. variegatus* Data

Due to the unexpected detection of explosives in *L. variegatus* tissue samples, the sediment analytical data and bioaccumulation tissue concentrations were evaluated. Specifically, the tissue results for explosives, pesticides and semivolatile data were evaluated. The following discussion presents the results of this evaluation.

4.3.1 Semivolatiles

The reported bis(2-ethylhexyl)phthalate detections in two worm tissue samples should be considered as non-detects. Bis(2-ethylhexyl)phthalate is a laboratory contaminant. Benzyl alcohol was detected in four tissue samples. These results cannot be discarded because the benzyl alcohol may have been picked up by the worms from the sediment.

4.3.2 Explosives

Reported concentrations of 2-amino-4,6-dinitrotoluene (2-amino-4,6-DNT) and Royal Demolition Explosives, cyclonite hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in each of the worm tissue samples, including the laboratory controls, should be considered as non-detects for the following reasons:

- Chemical analysis of the site and reference sediments did not detect any explosives including RDX and 2-amino-4,6-DNT above the certified reporting limits.
- The reported concentrations of 2-amino-4,6-DNT in the worm tissue samples exceed their theoretical maximum bioaccumulation values if it is assumed the compound was present in the sediment but at or below the certified reporting limits. The analysis supporting this statement is found in Appendix L.
- Explosives do not generally bioaccumulate to any appreciable extent in tissues. If present in tissue, explosives will bind to tissue proteins and be relatively difficult to extract.
- The method (USEPA Method 8330) used for explosives analysis [high performance liquid chromatography (HPLC) with ultraviolet detection (UV)] is not well suited for tissue samples. The analytical method employed was identified in the Final OQAPP as well as the Final Phase III SAP, both of which were reviewed and approved by the BCT. At the time the OQAPP was developed, there was no USEPA- or USAEC-approved method for explosives analysis in tissues. The available method was for soils and specified HPLC with UV detection (Method 8330), which leads to some interference from tissue components absorbing UV light at the wavelength used for explosives analysis (personal communication from Robert Baker, Explosives Analyst; Silverstein *et al.*, 1974; White *et al.*, 1968). In fact, the data are flagged as "Q" (sample interference obscured peak of interest) by IRDMIS. An

alternate method, which uses gas chromatography (GC), was not certified at the time of the analysis. The GC method has its own drawbacks, because the high source temperatures tend to burn up the explosives, which makes their detection difficult and unreliable.

- Worms exposed to the laboratory control sediment (beach sand) had reportable concentrations greater than those exposed to the ravine sediments. If we assume this to be true, the reported concentrations in the ravine sediment samples would be qualified as non-detects based on the reference concentrations.

4.3.3 Pesticides

Methoxychlor was detected in all but one of the worms exposed to the site and background sediment at concentrations ranging from 0.001 to 0.0037 μg/g. The results for methoxychlor should be considered as non-detects because of laboratory method blank contamination (1.53 μg/g). The laboratory control *L. variegatus* did not have any methoxychlor present in their tissues. p,p'-DDT, p,p'-DDE, and p,p'-DDD were detected in each of the bioaccumulation samples. They were also detected in the sediment samples to varying degrees. Due to the nature of these analytes, there is no reason to believe that their detection is not real. Based on calculations of some of the reported concentrations in the ravine sediments and worms, these analytes should be considered as being present. Aldrin, and alpha- and gamma-chlordane were present in some but not all of the ravine sediment samples. Again, there is no reason to conclude that these constituents would not be present in the worm tissues. The detection of organics (DDT, DDD, DDE, aldrin, alpha and gamma chlordane) in the laboratory control worms may tend to indicate uptake from other sources (e.g., vendors culturing water). However, analysis of laboratory cultured *L. variegatus* tissue did not show this to be the case. Due consideration should be given to the reference and laboratory control sample results when using the data.

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Table 4-1. Detection Summary of Constituents in Ravines and Beach Area Rinse Blanks (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / LAB ID: / RI PHASE: / TYPE: / DATE:	RB-SED1 / SNRT3*14 / III / SSA / 9/12/96	RB-SED2 / SNRT3*15 / III / SSA / 9/13/96	RINSE / NP2SW*55 / II / SSA / 2/21/96	RINSE / NP2SW*40 / II / SSA / 2/25/96	RINSE / NP2SW*53 / II / SSA / 2/25/96	RINSE / NP2SW*54 / II / SSA / 2/27/96
Metals							
Aluminum, Dissolved		NA	NA	NA	NA	NA	NA
Aluminum, Total		< 0.04	< 0.04	0.0414 i	< 0.04	< 0.04	< 0.04
Boron, Total		< 0.05	< 0.05	NA	NA	NA	NA
Calcium, Dissolved		NA	NA	NA	NA	NA	NA
Calcium, Total		< 0.1	< 0.1	0.115	< 0.1	0.145	0.110
Iron, Total		< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	0.0737
Lead, Total		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Magnesium, Dissolved		NA	NA	NA	NA	NA	NA
Magnesium, Total		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Potassium, Total		< 0.55	< 0.55	0.598 i	< 0.55	< 0.55	< 0.55
Sodium, Dissolved		NA	NA	NA	NA	NA	NA
Sodium, Total		0.195	0.390	0.201 i	0.130 i	0.256 i	< 0.1 i
VOCs							
Acetone		NA	NA	0.014	< 0.01	0.011	0.013
SVOCs							
Bis(2-ethylhexyl) phthalate		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenol		0.0036	< 0.002	0.013	0.033	0.0093	0.043
Pesticides/Herbicides							
Endosulfan sulfate		< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Hexachlorocyclohexane, alpha-		< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Explosives							
Nitrobenzene		< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Other							
Solids, total dissolved (TDS)		NA	NA	NA	NA	NA	NA

Table 4-1. Detection Summary of Constituents in Ravines and Beach Area Rinse Blanks (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / LAB ID: / RI PHASE: / TYPE: / DATE:	RB-SW / SNRT3*17/SNWF3*30 / III / SSA / 9/12/96	RINSE / SNGW*33 / II / BL / 12/4/95	RINSE / SNGW2*85 / II / BL / 4/20/96	RINSE / SNGW2*88 / II / BL / 5/1/96	RINSEKECKP / SNGW*49 / II / PUMP / 12/4/95
Metals						
Aluminum, Dissolved		0.0479 F	< 0.04 F	< 0.04 F	< 0.04 F	< 0.04 F
Aluminum, Total		< 0.04	< 0.04	0.0428	< 0.04	< 0.04
Boron, Total		0.0653	< 0.05	< 0.05	0.112	< 0.05
Calcium, Dissolved		0.969 F	0.345 F	0.384 F	0.278 F	0.588 F
Calcium, Total		< 0.1	0.136	0.102	0.145	0.322
Iron, Total		< 0.045	< 0.045	< 0.045	< 0.045	0.0512
Lead, Total		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Magnesium, Dissolved		0.352 F	0.0667 F	0.0956 F	< 0.05 F	0.112 F
Magnesium, Total		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Potassium, Total		< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Sodium, Dissolved		0.783 Fi	0.256 F	0.449 F	0.325 Fi	0.264 Fi
Sodium, Total		0.407 i	0.229	0.183	0.390 i	0.173 i
VOCs						
Acetone		NA	0.024	< 0.01	< 0.01	< 0.01
SVOCs						
Bis(2-ethylhexyl) phthalate		< 0.002	< 0.002	< 0.002	0.024	< 0.002
Phenol		< 0.002	0.0027	0.091	< 0.002	< 0.002
Pesticides/Herbicides						
Endosulfan sulfate		< 0.000005	< 0.000005	0.000036 C	< 0.000005	< 0.000005
Hexachlorocyclohexane, alpha-		< 0.000005	0.0000058	< 0.000005	< 0.000005	0.0000058
Explosives						
Nitrobenzene		< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000139
Other						
Solids, total dissolved (TDS)		15	NA	10	49	NA

Table 4-1. Detection Summary of Constituents in Ravines and Beach Area Rinse Blanks (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / LAB ID: / RI PHASE: / TYPE: / DATE:	RINSE / SNGW*34 / II / PUMP / 12/15/95	TRUCK#139 / SNGW2*83 / II / PUMP / 4/20/96	RINSE / SNGW2*84 / II / PUMP / 4/23/96	RINSETRUCK / SNGW2*86 / II / PUMP / 5/3/96	RINSETRUCK / SNGW2*87 / II / PUMP / 5/3/96
Metals						
Aluminum, Dissolved		< 0.04 F	< 0.04 F	< 0.04 F	< 0.04 F	< 0.04 F
Aluminum, Total		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Boron, Total		NA	< 0.05	< 0.05	0.0665	0.052
Calcium, Dissolved		1.61 F	0.543 F	0.569 F	1.47 F	0.469 F
Calcium, Total		1.23	0.552	0.375	0.292	0.194
Iron, Total		< 0.045	0.0592	< 0.045	< 0.045	< 0.045
Lead, Total		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Magnesium, Dissolved		0.241 F	< 0.05	< 0.05 F	1.01 F	0.251 F
Magnesium, Total		0.0842	< 0.05	< 0.05	0.0848	< 0.05
Potassium, Total		< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Sodium, Dissolved		0.325 F	0.258 F	0.166 F	1.94 Fi	1.94 Fi
Sodium, Total		0.134	0.166	0.136	0.24 i	0.226 i
VOCs						
Acetone		< 0.01	0.01 PJ	0.017	< 0.01	0.018
SVOCs						
Bis(2-ethylhexyl) phthalate		< 0.002	< 0.002	0.012	< 0.002	< 0.002
Phenol		< 0.002	0.0088	0.017	0.017 r	0.0044 r
Pesticides/Herbicides						
Endosulfan sulfate		< 0.000005	< 0.000005	0.000036 C	< 0.000005	< 0.000005
Hexachlorocyclohexane, alpha-		< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Explosives						
Nitrobenzene		< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Other						
Solids, total dissolved (TDS)		NA	13	< 10	< 10	NA

mg/L = milligrams per liter, NA = Not Analyzed, SSA = Sediment/Surface Water Sampling Apparatus Blank
BL = Bailer Blank, PUMP = Pump Blank
C = Analysis was confirmed, F = Field filtered, J = Value is estimated (IRDMIS Flags)
P = Results less than reporting level but greater than instrumental detection limit (IRDMIS Flag)
i = The low spike recovery is high, j = low spike recovery is low, r = data is rejected (IRDMIS Qualifiers)
VOCs = Volatile Organic Compounds, SVOCs = Semi-Volatile Organic Compounds
QST, 1998

Table 4-2. Detection Summary of Constituents in Water Supply Samples (mg/L), Suplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: DECONWATER RI PHASE: II	DRILLINGWA II	DI-1 II
Metals			
Aluminum, Dissolved	< 0.04 F	0.0409 F	< 0.04 F
Aluminum, Total	< 0.04	0.0696	< 0.04
Boron, Total	< 0.05	0.0734	< 0.05
Calcium, Dissolved	< 0.1 F	36.6 F	0.354 F
Calcium, Total	< 0.1	36.8	< 0.1
Chromium VI, Total	< 0.01	< 0.01	0.0473
Iron, Dissolved	< 0.045 F	0.107 F	< 0.045 F
Iron, Total	< 0.045	0.505	0.111
Mercury, Total	0.00398	< 0.0002	< 0.0002
Magnesium, Dissolved	< 0.05 F	11.4 F	0.163 F
Magnesium, Total	< 0.05	11.4	< 0.05
Manganese, Dissolved	< 0.005 F	0.021 F	< 0.005 F
Manganese, Total	< 0.005	0.0257	< 0.005
Potassium, Dissolved	< 0.55 F	1.69 F	< 0.55 F
Potassium, Total	< 0.55	2.04	< 0.55
Sodium, Dissolved	0.395 F	7.39 F	0.446 F
Sodium, Total	0.739	7.67	0.286
Zinc, Dissolved	< 0.02 F	0.0609 F	< 0.02 F
Zinc, Total	< 0.02	0.0776	< 0.02
VOCs			
Bromodichloromethane	< 0.002	0.003	< 0.002
Chloroform	< 0.002	0.0031	< 0.002
SVOCs			
Anthracene	< 0.0001	0.000195	< 0.0001
Pesticides/Herbicides			
Endosulfan Sulfate	< 0.000005	< 0.000005	0.000029 C
Other			
Alkalinity	1	96	< 5
Chloride	1.6	9.6	1.3
Fluoride	< 0.5	9.8	< 0.5
Hardness	< 1	145	< 1
Nitrogen, NO2+NO3	< 0.02	< 0.02	0.4
Sulfate	< 5	98	< 5
Total Dissolved Solids	32	217	19

mg/L = milligrams per liter
C = Analysis was confirmed (IRDMIS Flag)
F = Field filtered (IRDMIS Flag)
VOCs = Volatile Organic Compounds, SVOCs = Semi-Volatile Organic Compounds
QST, 1998

Table 4-3. Summary of Duplicate Analytes from the Ravine and Beach Study Areas with Greater Than 50 Percent Variance, Fort Sheridan, Illinois

SITE ID:		LF2SD02			HRSD02			HRBSD05		
RI PHASE:		II			II			II		
MEDIUM:		Sediment			Sediment			Sediment		
UNITS:		mg/kg			mg/kg			mg/kg		
DATE:										
CONSTITUENT	DEPTH:	0'	0' Dup	RPD	0'	0' Dup	RPD	0'	0' Dup	RPD
Metals										
Antimony		-	-	-	-	-	-	15.4	< 5 D	102.0
Arsenic		-	-	-	-	-	-	7.5	3.95 D	62.0
Barium		-	-	-	109	< 40 D	92.6	-	-	-
Beryllium		-	-	-	-	-	-	-	-	-
Chromium, total		-	-	-	-	-	-	341	187 D	58.3
Cobalt		-	-	-	16.8	7.85 D	72.6	-	-	-
Iron		-	-	-	-	-	-	-	-	-
Lead		-	-	-	-	-	-	987	371 D	90.7
Manganese		-	-	-	1770	545 D	105.8	-	-	-
Mercury		-	-	-	-	-	-	-	-	-
Nickel		-	-	-	-	-	-	88.7	52 D	52.2
Selenium		-	-	-	-	-	-	-	-	-
Silver		-	-	-	-	-	-	-	-	-
Sodium		-	-	-	-	-	-	178	451 D	-86.8
SVOCs										
Anthracene		1 k	4.8 Dk	-131.0	-	-	-	-	-	-
Benzo(a)anthracene		0.36 k	0.15 Dk	82.4	-	-	-	-	-	-
Benzo(a)pyrene		-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene		-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene		-	-	-	0.8	< 1.3 D	-47.6	-	-	-
Benzo(k)fluoranthene		0.17 k	0.061 Dk	94.4	-	-	-	-	-	-
Bis(2-ethylhexyl) phthalate		< 0.7	< 0.3 D	80.0	-	-	-	-	-	-

Table 4-3. Summary of Duplicate Analytes from the Ravine and Beach Study Areas with Greater Than 50 Percent Variance, Fort Sheridan, Illinois

	SITE ID:	LF2SD02			HRSD02			HRSD05		
	RI PHASE:	II			II			II		
	MEDIUM:	Sediment			Sediment			Sediment		
	UNITS:	mg/kg			mg/kg			mg/kg		
	DATE:									
CONSTITUENT	DEPTH:	0'	0' Dup	RPD	0'	0' Dup	RPD	0'	0' Dup	RPD
SVOCs										
Carbazole		< 0.7	< 0.3 D	80.0	-	-	-	-	-	-
Chrysene		0.59 k	3.2 Dk	-137.7	-	-	-	-	-	-
Dibenzo(a,h)anthracene		< 0.16 k	< 0.066 Dk	83.2	0.21	< 0.66 D	200.0	-	-	-
Dibenzofuran		< 0.7	< 0.3 D	80.0	-	-	-	-	-	-
Fluoranthene		-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene		0.23 k	< 0.066 Dk	110.8	-	-	-	-	-	-
Methylnaphthalene, 1-		3.83 k	1.94 Dk	65.5	-	-	-	-	-	-
Methylnaphthalene, 2-		2	< 0.3 D	147.8	-	-	-	-	-	-
Pyrene		1.3 k	0.55 Dk	81.1	-	-	-	-	-	-
Pesticides/Herbicides										
Aldrin		0.0347 Co	0.0159 DCo	74.3	-	-	-	-	-	-
Chlordane, gamma-		-	-	-	-	-	-	-	-	-
DDD, p,p'-		0.14 C	0.3 DC	-72.7	-	-	-	-	-	-
DDE, p,p'-		0.0333 C	0.058 DC	-54.1	-	-	-	0.0172 Cio	0.0357 DCio	-69.9
DDT, p,p'-		0.12 C	0.23 DC	-62.9	-	-	-	0.0803 Cio	0.0212 DCio	116.5
Endosulfan sulfate		-	-	-	-	-	-	-	-	-
Heptachlor epoxide		-	-	-	-	-	-	-	-	-
Other										
Alkalinity		-	-	-	-	-	-	-	-	-
Organic carbon, total (TOC)		-	-	-	-	-	-	-	-	-
Petroleum hydrocarbons, total (TPH)		-	-	-	37.2	58.5 D	-44.5	-	-	-

Table 4-3. Summary of Duplicate Analytes from the Ravine and Beach Study Areas with Greater Than 50 Percent Variance, Fort Sheridan, Illinois

	SITE ID:	JRBSD04			LF2SW01			HRSW03		
	RI PHASE:	III			II			II		
	MEDIUM:	Sediment			Surface water			Surface water		
	UNITS:	mg/kg			mg/L			mg/L		
	DATE:									
CONSTITUENT	DEPTH:	0'	0' Dup	RPD	0'	0' Dup	RPD	0'	0' Dup	RPD
Metals										
Antimony		-	-	-	-	-	-	-	-	-
Arsenic		-	-	-	-	-	-	-	-	-
Barium		-	-	-	-	-	-	-	-	-
Beryllium		0.327	0.516 D	-44.8	-	-	-	-	-	-
Chromium, total		-	-	-	-	-	-	-	-	-
Cobalt		-	-	-	-	-	-	-	-	-
Iron		-	-	-	< 0.045 F	0.256 DF	-140.2	-	-	-
Lead		-	-	-	-	-	-	-	-	-
Manganese		-	-	-	-	-	-	-	-	-
Mercury		0.257	< 0.10 D	88	-	-	-	-	-	-
Nickel		-	-	-	-	-	-	-	-	-
Selenium		-	-	-	-	-	-	-	-	-
Silver		-	-	-	-	-	-	-	-	-
Sodium		-	-	-	-	-	-	-	-	-
SVOCs										
Anthracene		-	-	-	-	-	-	-	-	-
Benzo(a)anthracene		-	-	-	-	-	-	-	-	-
Benzo(a)pyrene		-	-	-	-	-	-	0.000189	0.0000107 D	178.6
Benzo(b)fluoranthene		-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene		-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene		-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl) phthalate		-	-	-	-	-	-	-	-	-

Table 4-3. Summary of Duplicate Analytes from the Ravine and Beach Study Areas with Greater Than 50 Percent Variance, Fort Sheridan, Illinois

	SITE ID:	JRBSD04			LF2SW01			HRSW03		
	RI PHASE:	III			II			II		
	MEDIUM:	Sediment			Surface water			Surface water		
	UNITS:	mg/kg			mg/L			mg/L		
	DATE:									
CONSTITUENT	DEPTH:	0'	0' Dup	RPD	0'	0' Dup	RPD	0'	0' Dup	RPD
SVOCs										
Carbazole		-	-	-	-	-	-	-	-	-
Chrysene		-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene		-	-	-	-	-	-	-	-	-
Dibenzofuran		-	-	-	-	-	-	-	-	-
Fluoranthene		-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene		-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-		-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-		-	-	-	-	-	-	-	-	-
Pyrene		-	-	-	-	-	-	-	-	-
Pesticides/Herbicides										
Aldrin		-	-	-	-	-	-	-	-	-
Chlordane, gamma-		< 0.003	0.00525 DCio	-54.5	-	-	-	-	-	-
DDD, p,p'-		-	-	-	-	-	-	-	-	-
DDE, p,p'-		-	-	-	-	-	-	-	-	-
DDT, p,p'-		-	-	-	-	-	-	-	-	-
Endosulfan sulfate		-	-	-	-	-	-	-	-	-
Heptachlor epoxide		0.00559 Cio	< 0.003 Dio	60.3	-	-	-	-	-	-
Other										
Alkalinity		-	-	-	-	-	-	-	-	-
Organic carbon, total (TOC)		-	-	-	-	-	-	2.69	5.17 D	-63.1
Petroleum hydrocarbons, total (TPH)		-	-	-	-	-	-	-	-	-

Table 4-3. Summary of Duplicate Analytes from the Ravine and Beach Study Areas with Greater Than 50 Percent Variance, Fort Sheridan, Illinois

	SITE ID:	HRSBSW05			LF2MW02			LF2MW05S		
	RI PHASE:	II			II			II		
	MEDIUM:	Surface water			Groundwater			Groundwater		
	UNITS:	mg/L			mg/L			mg/L		
	DATE:				4/19/96			1/23/96		
CONSTITUENT	DEPTH:	0'	0' Dup	RPD	0'	0' Dup	RPD	0'	0' Dup	RPD
Metals										
Antimony		-	-	-	-	-	-	-	-	-
Arsenic		-	-	-	-	-	-	-	-	-
Barium		-	-	-	-	-	-	-	-	-
Beryllium		-	-	-	-	-	-	-	-	-
Chromium, total		-	-	-	-	-	-	-	-	-
Cobalt		-	-	-	-	-	-	-	-	-
Iron		-	-	-	-	-	-	-	-	-
Lead		0.0035	0.0059 D	-51.1	-	-	-	-	-	-
Manganese		-	-	-	-	-	-	-	-	-
Mercury		-	-	-	-	-	-	-	-	-
Nickel		-	-	-	-	-	-	-	-	-
Selenium		-	-	-	-	-	-	-	-	-
Silver		-	-	-	-	-	-	-	-	-
Sodium		-	-	-	-	-	-	-	-	-
SVOCs										
Anthracene		-	-	-	-	-	-	0.000309 *J*	0.00101 D	-106.3
Benzo(a)anthracene		-	-	-	-	-	-	0.00002 *UJ*	0.0000422 D	-71.4
Benzo(a)pyrene		-	-	-	-	-	-	0.0000319 *J*	0.0000764 D	-82.2
Benzo(b)fluoranthene		-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene		-	-	-	-	-	-	0.0001 *UJ*	0.00017 D	-51.9
Benzo(k)fluoranthene		-	-	-	-	-	-	0.0000117 *J*	0.0000308 D	-89.9
Bis(2-ethylhexyl) phthalate		-	-	-	-	-	-	-	-	-

Table 4-3. Summary of Duplicate Analytes from the Ravine and Beach Study Areas with Greater Than 50 Percent Variance, Fort Sheridan, Illinois

	SITE ID:	HRSBSW05			LF2MW02			LF2MW05S		
	RI PHASE:	II			II			II		
	MEDIUM:	Surface water			Groundwater			Groundwater		
	UNITS:	mg/L			mg/L			mg/L		
	DATE:				4/19/96			1/23/96		
CONSTITUENT	DEPTH:	0'	0' Dup	RPD	0'	0' Dup	RPD	0'	0' Dup	RPD
SVOCs										
Carbazole		-	-	-	-	-	-	-	-	-
Chrysene		-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene		-	-	-	-	-	-	-	-	-
Dibenzofuran		-	-	-	-	-	-	-	-	-
Fluoranthene		-	-	-	-	-	-	0.0000284 *J*	0.000073 D	-88.0
Indeno(1,2,3-cd)pyrene		-	-	-	-	-	-	0.00005 *UJ*	0.000164 D	-106.5
Methylnaphthalene, 1-		-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-		-	-	-	-	-	-	-	-	-
Pyrene		-	-	-	-	-	-	0.0001 *UJ*	0.000215 D	-73.0
Pesticides/Herbicides										
Aldrin		-	-	-	-	-	-	-	-	-
Chlordane, gamma-		-	-	-	-	-	-	-	-	-
DDD, p,p'-		-	-	-	-	-	-	-	-	-
DDE, p,p'-		-	-	-	-	-	-	-	-	-
DDT, p,p'-		-	-	-	-	-	-	-	-	-
Endosulfan sulfate		-	-	-	0.000018 C	0.0000074 DC	83.5	-	-	-
Heptachlor epoxide		-	-	-	-	-	-	-	-	-
Other										
Alkalinity		-	-	-	375	688 D	-58.9	-	-	-
Organic carbon, total (TOC)		-	-	-	-	-	-	-	-	-
Petroleum hydrocarbons, total (TPH)		-	-	-	-	-	-	-	-	-

Note: mg/kg = milligrams per kilogram, mg/L = milligrams per liter, RPD = Relative percent difference

- = Less than 50 percent variance or was not analyzed

C = Analysis was confirmed, D = Duplicate Sample (IRDMIS Flags)

i = The low-spike recovery is high (IRDMIS Qualifier)

k = Missed holding time for extraction and preperation (IRDMIS Qualifier)

o = Low spike recoveries excessively different (IRDMIS Qualifer)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

QST, 1998

Table 4-4. Detection Summary of Constituents in Toxicity Test Background Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / RI PHASE:	BLDBSD01 III	JRBSD04 III	JRBSD04 Dup III	JRBSD05 III	SRBSD01 III
Metals						
Aluminum		954 *J*	2920	3300 D	2190	5610
Antimony		5 *U*	8.46	7.91 D	9.53	8.4
Arsenic		2.26 i *J*	5.52 i	3.87 D i	2.98 i	3.56 i
Beryllium		0.20 *U*	0.327	0.516 D	0.326	0.471
Calcium		34800	55200	70400 D	98500	69300
Chromium, total		2.7 i	5.85 i	6.93 D i	4.39 i	10.9 i
Cobalt		2 *U*	6.48	8.02 D	3.89	7.45
Copper		3.02	15.7	16.4 D	13.2	19.5
Iron		4210 *J*	12300	14200 D	11100	14700
Lead		3.72 *J*	10.4	7.46 D	4.27	9.15
Magnesium		17900	31600	41000 D	48500	36700
Manganese		226	589	665 D	759	587
Mercury		0.10 *U*	0.257	< 0.10 D	1.82	< 0.10
Nickel		3.93	13.7	15.7 D	11.9	19.4
Potassium		138	533	613 D	508	1130
Sodium		428	532	535 D	558	869
Vanadium		4.22	9.28	10.6 D	7.25	12.9
Zinc		17	41	50.1 D	33	34.2
Pesticides/Herbicides						
Chlordane, gamma-		0.003 io *U*	< 0.003 io	0.00525 DC io	< 0.003 io	< 0.003 io
DDD, p,p'-		0.00438 C io *J*	0.0248 C io	0.032 DC io	< 0.003 io	0.14 C io
DDE, p,p'-		0.003 io *U*	0.0149 C io	0.0141 DC io	< 0.003 io	0.00492 C io
DDT, p,p'-		0.003 io *UJ*	0.0199 C io	0.0282 DC io	< 0.003 io	0.17 C io
Heptachlor epoxide		0.003 io *U*	0.00559 C io	< 0.003 D io	< 0.003 io	< 0.003 io
SVOC						
Bis(2-ethylhexyl) phthalate		0.14 *U*	< 0.14	< 0.14 D	2.2	< 0.14
Other						
Organic carbon, total (TOC)		19300 *J*	36400	28800 D	23300	36900

Note: C = Analysis was confirmed (IRDMIS Flag)
D = Duplicate analysis (IRDMIS Flag)
i = Low spike recovery is high (IRDMIS Qualifier)
o = Low spike recovery is excessively different (IRDMIS Qualifier)
U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)
J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)
UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)
SVOC = Semi-volatile organic compound
mg/kg = milligrams per kilogram
QST, 1998

Table 4-5. Detection Summary of Constituents in Toxicity Test Background Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / RI PHASE:	JRBSW04 III	JRBSW05 III	SRBSW01 III
Metals				
Aluminum, Total		0.178	4.75	1.96
Arsenic, Total		< 0.0025	0.0034	0.0038
Barium, Total		0.0582	0.0618	0.116
Barium, Dissolved		0.0564 F	0.0353 F	0.0938 F
Boron, Total		0.212	0.0701	0.139
Boron, Dissolved		0.205 F	0.0603 F	0.0971 F
Calcium, Total		119	78.9	134
Calcium, Dissolved		116 F	67.6 F	125 F
Copper, Total		< 0.005	0.0111	< 0.005
Iron, Total		0.478	5.35	3.18
Lead, Total		< 0.002	0.0041	0.0053
Magnesium, Total		77.7	52.8	65.4 i
Magnesium, Dissolved		76.7 F	46.2 F	60.1 F i
Manganese, Total		0.109	0.15	0.815
Manganese, Dissolved		0.0975 F	0.0133 F	0.613 F
Potassium, Total		2.79	4.7	10.8
Potassium, Dissolved		2.95 F	2.82 F	9.79 F
Sodium, Total		41.7 i	42.9 i	320 i
Sodium, Dissolved		41.5 F i	41.2 F i	307 F
Zinc, Total		< 0.020	0.0394	0.041
SVOC				
Bis(2-ethylhexyl) phthalate		< 0.002	< 0.002	0.0039
SLPs				
Alkalinity		304	332	312
Chemical oxygen demand		< 5	11.3	22.2
Chloride		69	80	700
Fluoride		< 0.5	0.54	< 0.5
Hardness		694	461	639
Nitrogen, NO2+NO3		0.114	1.3	0.818
Solids, total dissolved (TDS)		921	591	1590
Sulfate		270	53	61
Pesticides/Herbicides				
DDD, p,p'-		< 0.000005	0.000011 C	0.0006 C
DDE, p,p'-		< 0.000007	0.000011 C	0.000035 C
DDT, p,p'-		< 0.000007	0.000014 C	0.000024 C
Endrin		< 0.000005	< 0.000005	0.0000066 C
Other				
Organic carbon, total (TOC)		2.48	7.33	7.29

Note: C = Analysis was confirmed (IRDMIS Flag)
F = Sample filtered prior to analysis (IRDMIS Flag)
i = Low spike recovery is high (IRDMIS Qualifier)
SVOC = Semi-volatile organic compound
SLPs = Standard Landfill Parameters
mg/L = Milligrams per liter
QST, 1998

5.0 Study Area Specific Findings

The results obtained by sampling programs conducted at the ravines and Beach Area study areas of the Surplus OU are described in the following sections. The locations of the ravines and Beach Area study areas are presented in Figure 5-1.

5.1 Janes Ravine Study Area

Janes Ravine runs west to east along the northern boundary of the Surplus OU as shown in Figure 5-1. Each sediment and surface water sample collected from Janes Ravine is included in this study area. The locations of sediment and surface water samples collected from Janes Ravine are presented in Figure 5-2.

During Phase I field activities, sediment and surface water samples were collected from Stations C-0031, C-0130, and C-0242. During Phase II field activities, sediment/surface water samples were collected from locations B117SD01/B117SW01 and B117SD02/B117SW02 and Station JRSD02/JRSW02. In addition, during Phase II field activities, sediment samples were collected from Stations C-0242 (resample of Phase I location), NKASD01, and NKASD02. The sediment sample collected from Station C-0242 during Phase I exhibited raised detection limits for organic constituents and therefore was resampled in Phase II. Only the Phase II analytical results from sediment sampling Station C-0242 are being used in the evaluation of Janes Ravine in this RI/BRA. During Phase III field activities, sediment/surface water samples were collected from Stations JRBSD01/JRBSW01 through JRBSD03/JRBSW03.

The Phase I RI sediment samples were analyzed for metals, VOCs, polynuclear aromatic hydrocarbons (PAHs), semi-volatile organic compounds (SVOCs), pesticides/herbicides, PCBs, and total cyanide (ESE, 1992). The selected categories of analytes for Phase II sediment samples, as indicated in the Phase II SAP (ESE, 1995d), were metals, VOCs (excluding NKASD01 and NKASD02), PAHs (excluding NKASD01 and NKASD02), SVOCs, total recoverable petroleum hydrocarbons (TRPH), pesticides/ herbicides (excluding B117SD01 and B117SD02), PCBs (excluding B117SD01 and B117SD02), and total cyanide (JRSD02 only). The selected categories of analytes for the Phase III sediment samples, as indicated in the Phase III SAP (ESE, 1996a), were metals, SVOCs, pesticides/herbicides, PCBs, explosives, total cyanide, and TOC. The Phase I RI surface water samples were analyzed for total metals, VOCs, PAHs, SVOCs, pesticides/herbicides, PCBs, total cyanide, and standard landfill parameters (SLPs) (ESE, 1992). The selected categories of analytes for Phase II surface water samples, as indicated in the Phase II SAP (ESE, 1995d), were total metals, dissolved metals, VOCs, PAHs, SVOCs, pesticides/herbicides (excluding B117SW01 and B117SW02), PCBs (excluding B117SW01 and B117SW02) and SLPs (JRSW02 only). In addition, the Phase II surface water samples (except for JRSW02) had temperature, pH, conductivity, and turbidity measured in the field. The selected categories of analytes for the Phase III surface water samples, as indicated in the Phase III SAP (ESE, 1996a), were

total metals, dissolved metals, SVOCs, pesticides/herbicides, PCBs, explosives, total cyanide, and SLPs. In addition, the Phase III surface water samples had temperature, pH, conductivity, dissolved oxygen, and turbidity measured in the field. The IRDMIS Level III analytical reports for the Phase I, II, and III sediment samples and the Phase II and III surface water samples are provided in Appendices M and N, respectively.

5.1.1 Surface Soil

The sediment samples B117SD01, B117SD02, NKASD01, and NKASD02 were collected from the upper slope of Janes Ravine, in the vicinity of B117 and B912, respectively. Therefore, as these "sediment" samples were collected from areas that more appropriately represent "surface soil" conditions than "sediment" conditions, these samples are being evaluated as surface soil samples in this RI/BRA. Inorganic and organic constituents detected above OQAPP MDLs in Janes Ravine "surface soil" samples are presented in Tables 5-1 and 5-2, respectively.

5.1.2 Sediment

Specific site conditions were not noted for Phase I and II sediment sampling practices. However, specific site conditions were noted for the Phase III sediment sampling locations as described below. Sample JRBSD01 was collected on September 11, 1996 from a linear pool within the stream channel. Water depths within the pool ranged from 1 to 14 inches. There was a slight flow of water in the stream during the sampling effort. The water was transporting silt at the time of the sampling event due to the rain event that had occurred only an hour before the sampling. The sample location was in a forest habitat dominated by maples (*Acer*), elm (*Ulmus*), oak (*Quercus*), and basswood (*Tilia*). While the surface water sample was collected from the center of the pool, the sediment samples were collected from various locations within the pool due to the type of sediment present and the requisite volume of material required for analysis purposes. The sediment within the pool was composed of small rocks, gravel, coarse sand, fine sand, and silt. A fine layer of silt, that was easily disturbed, was present on the surface of the sediment.

Sample JRBSD02 was collected on September 9, 1996 from a small pool within the stream channel. Water depths within the pool ranged from 2 to 8 inches. There was a slight flow of water through the station during the sampling effort. The sample location was in a forest habitat dominated by maples (*Acer*), ash (*Fraxinus*), and basswood (*Tilia*). While the surface water sample was collected from the center of the pool, the sediment samples were collected from various locations within the pool due to the type of sediment present and the requisite volume of material required for analysis purposes. The sediment within the pool was composed of gravel, small rocks, coarse sand, and silt. Silt quickly became suspended in the water column following the initial disturbance of the sediment.

Sample JRBSD03 was collected on September 9, 1996 from a linear pool within the stream channel. Water depths within the pool ranged from 1 to 11 inches. There was a slight flow of water in the stream during the sampling effort. The sample location was in a forest habitat dominated by maples (*Acer*), elm (*Ulmus*), and basswood (*Tilia*). While the surface water sample was collected from the center of the pool, the sediment samples were collected from various locations within the pool due to the type of sediment present and the requisite volume of material required for analysis purposes. The sediment within the pool was composed of small rocks, coarse sand, and silt. This material overlaid a layer of hard clay, which was exposed in scour areas within the pool.

Inorganic and organic constituents detected above OQAPP MDLs in Janes Ravine sediment samples are presented in Tables 5-3 and 5-4, respectively.

5.1.3 Surface Water

Total and dissolved inorganic constituents detected above OQAPP MDLs in Janes Ravine surface water samples are presented in Tables 5-5 and 5-6, respectively. Organic constituents detected above OQAPP MDLs in Janes Ravine surface water samples are presented in Table 5-7. The temperature, pH, conductivity, dissolved oxygen, and turbidity measured in the field at the Janes Ravine surface water sampling stations are presented in Table 5-8. The field observation for the surface water stations are the same as the sediment stations discussed in Section 5.3.2.

5.2 Hutchinson Ravine

Hutchinson Ravine runs west to east across the center of the Surplus OU as shown in Figure 5-1. Each sediment and surface water sample collected from Hutchinson Ravine, including those collected from a northern branch that begins near LF2/SARN, are included in this study area. The locations of all sediment and surface water samples collected from Hutchinson Ravine for evaluation in this RI/BRA are presented in Figure 5-2.

During Phase I field activities, a sediment and surface water sample was collected from Station C-0732. During Phase II field activities, sediment/surface water samples were collected from Stations HRSD01/HRSW01 through HRSD03/HRSW03, LF2SD01/LF2SW01, and LF2SD02 /LF2SW02. During Phase III field activities, sediment/surface water samples were collected from Stations HRBSD01/HRBSW01 through HRBSD05/HRBSW05.

The Phase I RI sediment sample was analyzed for metals, VOCs, PAHs, SVOCs, pesticides/herbicides, PCBs, and total cyanide (ESE, 1992). The selected categories of analytes for Phase II sediment samples, as indicated in the Phase II SAP (ESE, 1995d), were metals, VOCs, PAHs, SVOCs, TRPH, pesticides/herbicides, PCBs, explosives (LF2SW01 and LF2SW02 only), and total cyanide. The selected categories of analytes for the Phase III sediment samples, as indicated in the Phase III SAP (ESE, 1996a),

were metals, SVOCs, pesticides/herbicides, PCBs, explosives, total cyanide, and TOC. The Phase I RI surface water sample was analyzed for total metals, VOCs, PAHs, SVOCs, pesticides/herbicides, PCBs, total cyanide, and SLPs (ESE, 1992). The selected categories of analytes for Phase II surface water samples, as indicated in the Phase II SAP (ESE, 1995d), were total metals, dissolved metals, VOCs, PAHs, SVOCs, pesticides/herbicides, PCBs, explosives (LF2SW01 and LF2SW02 only), total cyanide, and SLPs. At the laboratory, SLPs were inadvertently not analyzed for in surface water samples LF2SW01 and LF2SW02. In addition, Phase II surface water Samples LF2SW01 and LF2SW02 had temperature, pH, and turbidity measured in the field. The selected categories of analytes for the Phase III surface water samples, as indicated in the Phase III SAP (ESE, 1996a), were total metals, dissolved metals, SVOCs, pesticides/herbicides, PCBs, explosives, total cyanide, and SLPs. In addition, the Phase III surface water samples had temperature, pH, conductivity, dissolved oxygen, and turbidity measured in the field. The IRDMIS Level III analytical reports for Phase I, II, III sediment samples and the Phase II and III surface water samples are provided in Appendices M, and N, respectively.

5.2.1 Sediment

Specific site conditions were not noted for Phase I and II sediment sampling locations. However, specific site conditions were noted for the Phase III sediment sampling locations as described below. Samples HRBSD01 and HRBSW01 were collected on September 11, 1996 from a pool located in a sharp bend of the stream channel located approximately 40 feet upstream from where the stream enters a culvert. Water depths within the pool ranged from 1 to 5 inches. There was a slight flow of water in the stream during the sampling effort. The sample location was in a forest habitat dominated by maple (*Acer*) and elm (*Ulmus*). Deer and raccoon tracks were observed in the area of the sampling station. The sediment samples were collected from the perimeter of the pool because, in the deeper reaches where surface water samples were collected, the substrate was predominantly rock and gravel. Coarse sand and silts were located in the shallower reaches of the pool and this was where the sediment samples were collected.

Samples HRBSD02 and HRBSW02 were collected on September 10, 1996 from a linear pool within a bend of the stream channel. Water depths within the pool ranged from 1 to 6 inches. There was a slight flow of water through the station during the sampling effort. The sample location was in a forest habitat dominated by maples (*Acer*) and oaks (*Quercus*). The surface water sample was collected from the center of the pool. The sediment sample was collected from as close to the center of the pool as was possible due to the type of sediment present and the requisite volume of material required for analysis purposes. The sediment within the pool was composed of large and small rocks, bricks, coarse sand, clay, some detritus, and a thin layer of silt on the surface. After collecting the second trowel of soil, an oily sheen was observed on the water surface. A layer of black soil was encountered about 1 inch below the surface of the sediment. The OVM was exposed to the oily sheen and produced readings ranging between 1.7 to 2.6 parts per million (ppm). The OVM readings obtained from the sample collected containing the black soil ranged between 0.6 to 1.2 ppm.

Samples HRBSD03 and HRBSW03 were collected on September 10, 1996 from a linear pool within a bend of the stream channel located approximately 45 feet upstream from where the stream enters a culvert. Water depths within the pool ranged from 2 to 14 inches. There was a slight flow of water in the stream during the sampling effort. The sampling station was in a forest habitat dominated by maple (*Acer*), basswood (*Tilia*), elm (*Ulmus*), and oak (*Quercus*). The surface water sample was collected from the center of the pool. The sediment sample was collected from as close to the center of the pool as was possible due to the type of sediment present and the requisite volume of material required for analysis purposes. The sediment within the pool was composed of large and small rocks, gravel, coarse sand, and clayey silt.

Samples HRBSD04 and HRBSW04 were collected on September 11 and 12, 1996, respectively. Very little water was present, and there was no flow in the stream at the time of sampling. There were no areas of standing water greater than one half inch deep anywhere along the channel. For this reason, the sediment sample was collected from an area where water had the potential to pool. The sediment sample was collected on September 11, 1996. After sampling, an approximately 6 inch deep hole was excavated in the channel for water to collect. The sediment was composed of silts, clays, coarse sands and gravel. Detritus was present throughout the entire horizon of sediment in the sampling station. Approximately 18 hours after the collection of the sediment sample, the station was revisited and the surface water sample was collected from the pool excavated during the collection of the sediment sample. Water depths within the pool ranged from 1 to 6 inches. There was no flow of water through the pool during the sampling effort. Chironomids were observed in the bottom of the pool. The sampling station was in a forest habitat dominated by maple (*Acer*) and elm (*Ulmus*).

Samples HRBSD05 and HrBSW05 were collected on September 10 and 11, 1996 respectively. Very little water was present, and there was no flow in the stream at the time of sampling. There were no areas of standing water greater than one half inch deep anywhere along the channel as with Sample HRBSD04. The sediment sample was collected from an area where water had the potential to pool. The sediment sample was collected on September 10, 1996. Again, an approximately 6 inch deep hole was excavated in the channel for water to collect. The sediment was composed of silts, clays, coarse sands and gravel. Detritus was present throughout the entire horizon of sediment in the sampling station. Approximately 18 hours after the collection of the sediment sample, the station was revisited and water samples were collected from the pool excavated during the collection of the sediment sample. Water depths within the pool ranged from 1 to 6 inches. There was almost no flow of water through the station during the sampling effort. The sampling station was in a forest habitat dominated by maple (*Acer*) and elm (*Ulmus*).

Inorganic and organic constituents detected above OQAPP MDLs in Hutchinson Ravine sediment samples are presented in Tables 5-9 and 5-10, respectively.

5.2.2 Surface Water

Total and dissolved inorganic constituents detected above OQAPP MDLs in Hutchinson Ravine surface water samples are presented in Tables 5-11 and 5-12, respectively. Organic constituents detected above OQAPP MDLs in Janes Ravine surface water samples are presented in Table 5-13. The temperature, pH, conductivity, dissolved oxygen, and turbidity measured in the field at the Hutchinson Ravine surface water sampling stations are presented in Table 5-14. The field observations at the surface water stations are the same as the sediment station observations discussed in Section 5.4.1.

5.3 Beach Area

The Beach Area study area extends from the mouth of Janes Ravine south to the mouth of Hutchinson Ravine. The breadth of the Beach Area starts at the base of the bluffs along Lake Michigan to approximately 10 feet out into the lake as depicted in Figure 5-3. All sediment samples collected along the Beach Area are included. For purposes of the Beach Area, designated "soil" samples (i.e., FTRSB01 and FTRSB02 and LF2 soil boring samples collected from less than 7.5 ft-bgs on the beach) are treated as "sediment" samples. The Beach Area includes the impact area of the Former Trap Range and LF2 beach borings (LF2SB04S/D, LF2SB05S/D, LF2SB06S/D, LF2SB07S/D, LF2SB08S/D, and LF2SB09S/D).

The locations of the surface water and sediment sample collection areas are depicted in Figure 5-3. During Phase I field activities, a total of eight surface and subsurface "sediment" samples were collected from the Beach Area from LF2 soil borings at depths ranging from 0 to 6 ft-bgs. In addition, surface water/sediment samples OD-1, C-0300, C-0692, and C-0690 were collected along the beach at outfalls to Lake Michigan of Janes Ravine, Hutchinson Ravine, the Airport Drain, and a small unnamed outfall near Hutchinson Ravine, respectively. During Phase II field activities, two "soil" borings (FTRSB01 and FTRSB02) were advanced. A total of four surface and subsurface sediment samples associated with the Former Trap Range impact area were collected. In addition, two sediment samples (TRSD01 and TRSD02) were collected from Lake Michigan at the locations indicated on Figure 5-3. These samples were also collected to evaluate the Former Trap Range impact area. During Phase III field activities, a sediment sample (JRBSD06) was collected from the outfall of Janes Ravine to Lake Michigan (see Figure 5-3). A sediment sample (HRBSD06) was also collected at the mouth of Hutchinson Ravine during Phase III. The data from this sample are not evaluated in this section because the sample was not analyzed due to an oversight.

The Phase I RI "sediment" samples were analyzed for metals, VOCs, PAHs, SVOCs, pesticides/ herbicides, PCBs, and total cyanide (ESE, 1992). Phase I surface water samples were analyzed for total metals, VOCs, PAHs, SVOCs, pesticides/herbicides, PCBs, total cyanide, and SLPs (ESE, 1992). The selected categories of analytes for Phase II "sediment" samples, as indicated in the Phase II SAP (ESE, 1995d), were metals, PAHs, and explosives (subsurface sediment samples and sediment samples

collected from the lake only). The selected categories of analytes for the Phase III sediment samples, as indicated in the Phase III SAP (ESE, 1996a), were metals, SVOCs, pesticides/herbicides, PCBs, explosives, and TOC. The boring logs for the Beach Area are provided in Appendix B. The Phase III depth-to-water measurements for the existing monitoring wells at Fort Sheridan (including the LF2 beach wells) are provided in Appendix D. The IRDMIS Level III analytical reports for Phase I and II "soil" samples and the Phase I, II, and III sediment samples are provided in Appendices O and M, respectively. The Phase I surface water IRDMIS Level III analytical reports are provided in Appendix N.

Groundwater samples collected from monitoring wells constructed on the beach and on the bluff proximal to LF2 were used to select ecological COPCs for the Beach Area study area. In addition, toxicity tests were performed on fathead minnows using groundwater collected from select Beach Area and background monitoring wells. The locations of the monitoring wells from which samples were collected for use in these analyses are depicted in Figure 5-4.

5.3.1 Sediment

Inorganic and organic constituents detected above OQAPP MDLs in Beach Area sediment samples are presented in Tables 5-15 and 5-16, respectively.

The soil boring logs for soil boring/monitoring well nest LF2SB04S&D/LF2MW04S&D indicates that a pale brown sand to gravelly sand (saturated at 5.6 ft-bgs) was encountered from the surface to approximately 6.75 ft-bgs. A gray-brown native silty clay with trace gravel was encountered from 6.75 to 10 ft-bgs. From 10 to 31 ft-bgs, the maximum depth of boring advancement, a gray native silty clay with trace gravel was encountered. Monitoring wells were constructed in both borings with LF2MW04S screened from approximately 4.5 to 9.5 ft-bgs and LF2MW04D screened from approximately 20 to 30 ft-bgs. Depth-to-water measurements from these monitoring wells, recorded after they had been undisturbed for several years, were approximately 4 ft-bgs [6.62 feet below top of casing (ft-btoc) on 11/12/95] at LF2MW04S and free flowing artesian (i.e., the potentiometric surface was above top of casing) on 11/12/95 at LF2MW04D. At no time were any PID readings above background noted during boring advancement.

The soil boring logs for soil boring/monitoring well nest LF2SB05S&D/LF2MW05S&D indicate that a pale brown sand to gravelly sand (saturated at 6 ft-bgs) was encountered from the surface to approximately 8 ft-bgs. A gray native silty clay with trace gravel was encountered from 8 ft-bgs to 40 ft-bgs, the maximum depth of boring advancement. Monitoring wells were constructed in both borings with LF2MW05S screened from approximately 6 to 11 ft-bgs and LF2MW05D screened from approximately 17.5 to 27.5 ft-bgs. Depth-to-water measurements from these monitoring wells, recorded after they had been undisturbed for several years, were approximately 5 ft-bgs (8.00 ft-btoc on 11/12/95) at LF2MW05S and artesian (but not free flowing) (i.e., the potentiometric surface was above the ground

surface, but below top of casing) on 11/12/95 at LF2MW05D. At no time were any PID readings above background noted during boring advancement.

The soil boring logs for soil boring/monitoring well nest LF2SB06S&D/LF2MW06S&D indicate that a pale brown sand to gravelly sand (saturated at 5.5 ft-bgs) was encountered from the surface to approximately 6.75 ft-bgs. A gray native silty clay with trace gravel was encountered from 6.75 ft-bgs to 24 ft-bgs, the maximum depth of boring advancement. Monitoring wells were constructed in both borings with LF2MW06S screened from approximately 3.5 to 8.5 ft-bgs and LF2MW06D screened from approximately 13.25 to 23.25 ft-bgs. Depth-to-water measurements from these monitoring wells, recorded after they had been undisturbed for several years, were approximately 3.5 ft-bgs (6.38 ft-btoc on 11/12/95) at LF2MW06S and approximately 0 ft-bgs (2.89 ft-btoc on 11/12/95) at LF2MW06D. At no time were any PID readings above background noted during boring advancement.

The soil boring logs for soil boring/monitoring well nest LF2SB07S&D/LF2MW07S&D indicate that a pale brown sand to gravelly sand (saturated at 5 ft-bgs) was encountered from the surface to approximately 7.5 ft-bgs. A gray native silty clay with trace gravel was encountered from 7.5 ft-bgs to 34 ft-bgs, the maximum depth of boring advancement. Monitoring wells were constructed in both borings with LF2MW07S screened from approximately 3.25 to 8.25 ft-bgs and LF2MW07D screened from approximately 22 to 32 ft-bgs. Depth-to-water measurements from these monitoring wells, recorded after they had been undisturbed for several years, were approximately 3 ft-bgs (5.43 ft-btoc on 11/12/95) at LF2MW07S and artesian (not free flowing) on 11/12/95 at LF2MW07D. At no time were any PID readings above background noted during boring advancement. Monitoring well LF2MW07D was sampled in 1995 during the first round of Phase II sampling. However, during Round 2 the well was missing and evidence suggests that it was broken off by the lake ice accumulation on the beach over the winter and spring.

The soil boring logs for soil boring/monitoring well nest LF2SB08S&D/LF2MW08S&D indicate that a brown sand to gravelly sand (saturated at 5.5 ft-bgs) was encountered from the surface to approximately 6.75 ft-bgs. A gray native silty clay with trace gravel was encountered from 6.75 to 32 ft-bgs, the maximum depth of boring advancement. Monitoring wells were constructed in both borings with LF2MW08S screened from approximately 3.75 to 8.75 ft-bgs and LF2MW08D screened from approximately 19.5 to 29.5 ft-bgs. Depth-to-water measurements from these monitoring wells, recorded after they had been undisturbed for several years, were approximately 3.5 ft-bgs (6.51 ft-btoc on 11/12/95) at LF2MW08S and free flowing artesian on 11/12/95 at LF2MW08D. At no time were any PID readings above background noted during boring advancement.

The soil boring logs for soil boring/monitoring well nest LF2SB09S&D/LF2MW09S&D indicate that a pale brown sand to gravelly sand (saturated at 4 ft-bgs) was encountered from the surface to approximately 6.5 ft-bgs. A gray native silty clay with trace gravel was encountered from 6.5 ft-bgs to

32 ft-bgs, the maximum depth of boring advancement. Monitoring wells were constructed in both borings with LF2MW09S screened from approximately 3.9 to 8.9 ft-bgs and LF2MW09D screened from approximately 19.75 to 29.75 ft-bgs. Depth-to-water measurements from these monitoring wells, recorded after they had been undisturbed for several years, were approximately 2.5 ft-bgs (4.96 ft-btoc on 11/12/95) at LF2MW09S and artesian (not free flowing) on 11/12/95 at LF2MW09D. At no time were any PID readings above background noted during boring advancement.

The logs for FTRSB01 and FTRSB02 indicate that a tan poorly graded coarse grained sand (beach deposits) were encountered from surface to 5.5 ft-bgs in both locations, the maximum depth of soil boring advancement. Saturation was encountered at approximately 5.0 ft-bgs in each soil boring. No monitoring wells were installed at these soil boring locations. At no time were any OVM readings above background noted during boring advancement at the Beach Area.

Sample JRBSD06 was collected on September 12, 1996 about midway between where the ravine reaches the beach and the water level of Lake Michigan. Water depths ranged from 1 to 8 inches. There was a constant flow of water through the station during the sampling effort. The sediment consisted of small rocks, gravel, and coarse sand.

Sample HRBSD06 was collected on September 11, 1996 from the end of culvert where it empties onto the beach of Lake Michigan. Water depths ranged from 1 to 5 inches. There was a constant flow of water in the stream during the sampling effort. The sediment sample was collected directly in front of the culvert, which was approximately 10 feet from the water line of Lake Michigan. Centipedes and tubificids were observed on the rocks and in the outfall stream. The sediment consisted of small rocks, gravel, coarse sand, and some small detrital fragments.

5.3.2 Surface Water

Total inorganic and organic constituents detected above OQAPP MDLs in Beach Area surface water samples are presented in Table 5-17. Filtered surface water samples were not collected during Phase I. Therefore, no dissolved surface water data are presented for the Beach Area as the only surface water samples collected from this study area were collected during Phase I.

5.3.3 Groundwater

Inorganic constituents detected above MDLs in Beach Area and LF2/SARN unfiltered and filtered groundwater samples are presented in Tables 5-18 and 5-19, respectively. Organic constituents detected above MDLs in unfiltered groundwater samples are presented in Table 5-20. It should be noted that only groundwater data from Phase II are presented herein. As previously mentioned, the Phase I groundwater analyses were not conducted according to OQAPP-approved methods and were not validated (see

Subsection 4.1.4). Since two complete rounds of groundwater samples were collected in Phase II in accordance with the OQAPP, the Phase I data will only be used in a qualitative sense in the RI/BRA. The IRDMIS Level III analytical reports for Phase II and III groundwater samples are presented in Appendix P.

5.4 Ecological Sampling and Toxicity Tests

As discussed in Section 3.10, several ecological tests were conducted for the ravines and Beach Area study areas. These tests consisted of ecological sediment toxicity tests on two freshwater invertebrates, and groundwater toxicity tests on a fish species. The results of these tests are presented below.

5.4.1 Whole Sediment Chronic Toxicity Tests

Whole sediment chronic toxicity tests were conducted using the freshwater invertebrate, *H. azteca*, on sediment Samples JRBSD01, JRBSD02, and JRBSD03 collected from Janes Ravine and Samples HRBSD01, HRBSD02, HRBSD03, HRBSD04, and HRBSD05 from Hutchinson Ravine. Tests were also run on background sediment Samples JRBSD04 and JRBSD05 collected in Janes Ravine and SRBSD01 collected from Schenk Ravine. The locations of both the ravine and background sediment samples are depicted in Figure 5-5. The tests were conducted following ASTM Guideline E 1383-94 entitled Standard Guide for Conducting Sediment Toxicity Tests with Freshwater Invertebrates (ASTM, 1995a). The effect criteria for the tests were survival and growth (length and dry weight). Test organism survival and growth are presented in Table 5-21. After 28 days of exposure, there were no significant differences ($P \leq 0.05$) in the survival of *H. azteca* between the laboratory control sediment and any of the three background sediments. Also, there were no significant differences ($P \leq 0.05$) in the survival of *H. azteca* between the three background sediments and any of the ravine sediments. Growth, as dry weight and length, of *H. azteca* in the background sediments was not significantly different ($P \leq 0.05$) from growth in any of the site or laboratory control sediments. Thus, constituent concentrations present in the sediments collected from Janes and Hutchinson Ravines did not adversely affect the survival and growth of *H. azteca*. The complete report and raw data are provided in Appendix H.

5.4.2 Flow-Through Whole Sediment Bioaccumulation Tests

Flow-through whole sediment bioaccumulation tests were conducted with the freshwater invertebrate, *L. variegatus*, on collected samples. These tests were undertaken to:

- measure bioavailability directly; and
- provide the data necessary to evaluate the potential for exposure to higher trophic level organisms via the food web.

The effect criteria for the tests were survival and adequate tissue mass for chemical analyses. The bioaccumulation tests were conducted following ASTM Guideline E 1688-95 entitled Standard Guide for

Determination of Bioaccumulation of Sediment-Associated Contaminants by Benthic Invertebrates (ASTM, 1995b), the USACE Guidelines specified the Great Lakes Dredged Material Testing and Evaluation Manual (USACE, 1995), and QST in-house protocols. Two ravine sediment samples (JRBSD01 and HRBSD01), two beach sediment samples (JRBSD06 and HRBSD06), one background ravine sediment sample (JRBSD04), one background beach sediment sample (BLDBSD01), and one laboratory control sample were used in the toxicity tests. The locations of the ravine and beach sediment samples are presented in Figure 5-6. Background ravine Sample JRBSD04 was collected from the reference portion of north Janes Ravine. Chemical analyses of the *L. variegatus* tissues were performed for metals, explosives, semivolatile organic compounds, pesticides, and PCBs. Inorganic and organic constituents detected above MDLs in *L. variegatus* beach and ravine tissue samples are presented in Tables 5-22 and 5-23, respectively. The IRDMIS Level III laboratory analytical reports are contained in Appendix Q.

Survival and mean weight data for *L. variegatus* after the 28-day testing period show no acute chronic toxicity was detected. After 28 days of exposure, there was adequate survival of *L. variegatus* in all the ravine and beach samples. No dead organisms were found at test termination. However, there was some weight loss. The mass of *L. variegatus* recorded ranged from 42.06 (control) to 53.48 grams (BLDBSD01, background). It is not unusual for test organisms to lose weight in bioaccumulation tests because the organisms are not fed for the duration of the test. No unusual behavior observations were recorded during the 28-day test period. Under the conditions of the test, there were no acute or chronic effects determined after the 28-day exposure period. Enough *L. variegatus* tissue was available at the end of the bioaccumulation tests to perform the required chemical analyses. The complete report and raw data are provided in Appendix H.

5.4.3 Acute Toxicity Tests of Fathead Minnows Exposed to Groundwater

Definitive static-renewal acute toxicity tests were conducted with the fathead minnow, *P. promelas*, on groundwater samples collected from the study area. Tests were performed according to the procedures outlined in "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," EPA/600/4-90/027F (USEPA, 1990). The effect criterion for the acute toxicity tests was mortality.

A total of three groundwater samples, three background samples, and one laboratory control sample were used in the toxicity tests. The wells from which samples were collected were LF2MW06S, LF2MW08S, and LF2MW09S (see Figure 5-3). The three background groundwater samples were collected from wells BGMW02, BGMW03, and BGMW04 (Figure 5-7). The concentrations used for the definitive acute toxicity test of each test sample were 0 (control water), 6.25, 12.5, 25, 50, and 100 percent. Test concentrations used in the toxicity tests were prepared by diluting portions of the ground water samples

with control water. The ground water and control concentrations were conducted in duplicate with 20 organisms per concentration, equally divided among the replicates.

After 96-hours of exposure, mortality of *P. promelas* in the control exposure was 0 percent. Survival of *P. promelas* in all of the five concentrations (6.25, 12.5, 25.0, 50.0, and 100.0 percent) of LF2 and background water samples ranged from 90 percent (100 percent LF2MW09S) to 100 percent (100 percent BGMW04). There were no significant differences ($p<0.05$) in mortality between the laboratory control and any of the LF2 or background groundwater samples. Under the conditions of the study, the 96-hour LC50 values for all the groundwater samples were greater than 100 percent. The complete report and raw data are provided in Appendix H.

Table 5-1. Detection Summary of Inorganic Constituents in Janes Ravine Surface Soil Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	B117SD01	B117SD02	NKASD01	NKASD02
	RI PHASE:	II	II	II	II
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0'	0.0'
Metals					
Aluminum		9040	13800	12500	9940
Arsenic		4.95	7.18	8.93	6.81
Barium		55.8	64	65.6	81.7
Beryllium		0.728	0.719	0.632	< 0.2
Cadmium		< 0.5	< 0.5	< 0.5	< 0.5
Calcium		62200	33100	3830	14500
Chromium, total		15.8	22.4	21.3	17
Cobalt		7.38	11.7	13.4	9.35
Copper		20 j	26.3 j	26.8 j	24.3 j
Iron		15600	22800	31000	18600
Lead		104	41.5	32	30 j
Magnesium		40100	22900	4640	8350
Manganese		486	697	879	764
Mercury		< 0.1	< 0.1	< 0.1	< 0.1
Nickel		16.2	28.5	33.4	25.3
Potassium		1480	3070	1490	1770
Silver		< 0.5	< 0.5	< 0.5	< 0.5
Sodium		575	697	419	669
Thallium		< 0.25	0.499	< 0.25	< 0.25
Vanadium		21.7	30.6	32	22.6
Zinc		375	87.6	94.7	132

Note: j = Low spike recovery is low (IRDMIS Qualifier)
mg/kg = Milligrams per kilogram
QST, 1998

Table 5-2. Detection Summary of Organic Constituents in Janes Ravine Surface Soil Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / RI PHASE: / DEPTH:	B117SD01 / II / 0.0'	B117SD02 / II / 0.0'	NKASD01 / II / 0.0'	NKASD02 / II / 0.0'
SVOCs					
Acenaphthene		1.4	< 0.133	< 0.14	< 0.14
Anthracene		0.53	0.135	< 0.14	< 0.14
Benzo(a)anthracene		0.18	0.042	< 0.14	< 0.14
Benzo(a)pyrene		0.25	0.054	< 0.14	< 0.14
Benzo(b)fluoranthene		0.29	0.069	< 0.14	< 0.14
Benzo(g,h,i)perylene		0.41	< 0.067	< 0.16	< 0.16
Benzo(k)floranthene		0.14	0.028	< 0.14	< 0.14
Bis(2-ethylhexyl)phthalate		< 3	< 0.14	1.3	2
Chrysene		0.1	0.0249	< 0.14	< 0.14
Di-n-butyl phthalate		< 3	< 0.14	10	5.9
Dibenzo(a,h)anthracene		0.094	< 0.033	< 0.16	< 0.16
Fluoranthene		0.44	0.1	< 0.14	< 0.14
Fluorene		0.204	< 0.033	< 0.14	< 0.14
Indeno(1,2,3-cd)pyrene		0.15	< 0.033	< 0.16	< 0.16
Methylnaphthalene, 1-		0.258	< 0.133	NA	NA
Methylnaphthalene, 2-		1.06	< 0.133	< 0.14	< 0.14
Naphthalene		0.402	< 0.133	< 0.14	< 0.14
Phenanthrene		0.266	0.11	< 0.14	< 0.14
Pyrene		1.2	0.262	< 0.14	< 0.14
Pesticides/Herbicides					
DDE, p,p'-		NA	NA	0.00533 C	0.0131 C
DDT, p,p'-		NA	NA	0.00448 C	0.00689 C
Other					
Petroleum hydrocarbons, total (TPH)		432	256	67.4	278

Note: C = Analysis was confirmed (IRDMIS Flag)
SVOCs = Semi volatile organic compounds
NA = Not analyzed
mg/kg = Milligrams per kilogram
QST, 1998

Table 5-3. Detection Summary of Inorganic Constituents in Janes Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	C-0031	C-0130	C-0242	JRSD02	JRBSD01	JRBSD02	JRBSD03
	RI PHASE:	I	I	II	II	III	III	III
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0'	0.0'	0.0'	0.0'	0.0'
Metals								
Aluminum		8400 *J*	6400 *J*	2440	2980 *J*	1490	2950	4150
Arsenic		7.98 *J*	15.7 *J*	2.28	4.83 *J*	3.26 i	4.68 i	6.78 i
Barium		29.6 *UJ*	113 *J*	< 40	40 *U*	< 40	< 40	< 40
Beryllium		1.86 *UJ*	1.86 *UJ*	< 0.2	0.297	0.343	0.296	0.639
Cadmium		3.05 *UJ*	3.05 *UJ*	0.9	0.5 *U*	< 0.5	< 0.5	< 0.5
Calcium		100000 *J*	46000 *J*	65000	25800	42300	43300	54100
Chromium, total		12.7 *UJ*	12.7 *UJ*	7.38	6.12	3.82 i	5.56 i	8.5 i
Cobalt		15 *UJ*	15 *UJ*	< 2	10.6	4.15	9.46	9.49
Copper		58.6 *UJ*	58.6 *UJ*	11.8	13.4	11.2	11.6	19.4
Iron		16000 *U*	23000 *J*	5140	15800 *J*	7420	10700	18400
Lead		9.46 *J*	30 *J*	42.8	12	7.02	12	11
Magnesium		50000 *J*	23000 *J*	35900	13600	22600	21400	29200
Manganese		639 *J*	2040 *J*	264	1240	332	498	584
Mercury		0.05 *UJ*	0.05 *UJ*	1.95	0.1 *U*	< 0.1	< 0.1	< 0.1
Nickel		38.4 *J*	32.4 *J*	7.07	18.4	8	13.4	18.3
Potassium		2770 *J*	1380 *U*	443	482	299	453	782
Silver		2.5 *UJ*	2.5 *UJ*	< 0.5	0.5 *U*	0.63	< 0.5	< 0.5
Sodium		624 *J*	512 *J*	676	557	465	444	630
Thallium		31.3 r*UJ*	31.3 r*UJ*	0.375	0.402 *J*	< 0.25	< 0.25	0.326 PJ
Vanadium		29.6 *J*	41.2 *J*	6.9	14.5	6.76	9.55	12.4
Zinc		30.2 *UJ*	155 *J*	190	85.9	26	38.4	39.2

Note: i = Low spike recovery is high (IRDMIS Qualifier)

r = Data is rejected (IRDMIS Qualifier)

J = Value is estimated (IRDMIS Flag)

P = Results less than reporting level but greater than instrumental detection limit (IRDMIS Flag)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

mg/kg = Milligrams per kilogram

QST, 1998

Table 5-4. Detection Summary of Organic Constituents in Janes Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	C-0031	C-0130	C-0242	JRSD02	JRBSD01	JRBSD02	JRBSD03
	RI PHASE:	I	I	II	II	III	III	III
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0'	0.0'	0.0'	0.0'	0.0'
SVOCs								
Acenaphthene		< 0.036	< 0.036	1.78	0.16	< 0.14	< 0.14	< 0.14
Anthracene		< 0.033	< 0.033	1.29	0.0537	< 0.14	< 0.14	< 0.14
Benzo(a)anthracene		< 0.17	< 0.17	0.23	< 0.032	< 0.14	< 0.14	< 0.14
Benzo(a)pyrene		< 0.25	< 0.25	0.36	0.032	< 0.14	< 0.14	< 0.14
Benzo(b)fluoranthene		< 0.21	< 0.21	0.43	0.046	< 0.14	< 0.14	< 0.14
Benzo(g,h,i)perylene		0.25 *UJ*	0.25 *UJ*	0.24	0.0203	< 0.16	< 0.16	< 0.16
Benzo(k)fluoranthene		< 0.066	0.17	0.28	< 0.018	< 0.14	< 0.14	< 0.14
Bis(2-ethylhexyl) phthalate		< 0.62	< 0.62	0.65	0.52	0.17 PJ	< 0.14	< 0.14
Chrysene		< 0.12	0.33	0.33	0.167	< 0.14	< 0.14	< 0.14
Di-n-butyl phthalate		< 0.061	< 0.061	1.8	< 0.14	< 0.14	< 0.14	< 0.14
Dibenzo(a,h)anthracene		0.21 *UJ*	0.21 *UJ*	< 0.082	0.00624	< 0.16	< 0.16	< 0.16
Fluoranthene		< 0.068	0.44	0.65	0 .16 JP	< 0.14	0.16 JP	< 0.14
Fluorene		< 0.033	< 0.033	0.299	< 0.033	< 0.14	< 0.14	< 0.14
Indeno(1,2,3-cd)pyrene		0.29 *UJ*	0.29 *UJ*	0.24	< 0.082	< 0.16	< 0.16	< 0.16
Methylnaphthalene, 1-		NA	NA	< 0.133	< 0.133	NA	NA	NA
Methylnaphthalene, 2-		< 0.049	0.37	1.12	0.336	< 0.14	< 0.14	< 0.14
Naphthalene		< 0.037	0.15	0.687	0.172	< 0.14	< 0.14	< 0.14
Phenanthrene		0.046	0.25	0.366	0.301	< 0.14	< 0.14	< 0.14
Pyrene		< 0.033	0.53	1.3	0.184	< 0.14	< 0.14	< 0.14

Table 5-4. Detection Summary of Organic Constituents in Janes Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / RI PHASE: / DEPTH:	C-0031 / I / 0.0'	C-0130 / I / 0.0'	C-0242 / II / 0.0'	JRSD02 / II / 0.0'	JRBSD01 / III / 0.0'	JRBSD02 / III / 0.0'	JRBSD03 / III / 0.0'
Pesticides/Herbicides								
Chlordane, alpha-		< 0.33 R	NA	0.0325 C	0.00662 C	0.00777 Cio	0.00388 Cio	< 0.003 io
Chlordane, gamma-		< 0.33 R	NA	0.0285 C	0.0072 C*U*	0.00812 Cio	0.00471 Cio	< 0.003 io
Chlordane, total		< 0.0177	5.2	0.4 C	0.0604 C	0.0621 Cio	0.0306 Cio	< 0.02 io
DDD, p,p'-		< 0.00826	6.6	0.15 C	0.2 C	0.2 Cio	0.08 Cio	0.073 Cio
DDE, p,p'-		< 0.00765	0.48	0.0406 C	0.11 C	0.0418 Cio	0.0259 Cio	0.0196 Cio
DDT, p,p'-		< 0.00707	5.9	0.2 C	0.16 C	0.096 Cio	0.0494 Cio	0.043 Cio
Hexachlorocyclohexane, gamma- (Lindane)		< 0.00638	0.071	< 0.003	< 0.003	0.00729 Cio	< 0.003 io	< 0.003 io
Methoxychlor		< 0.0711	0.106	< 0.003	0.003 *U*	< 0.003	< 0.003	< 0.003
Other								
Organic carbon, total (TOC)		NA	NA	NA	NA	33000	28900	36900
Petroleum hydrocarbons, total (TPH)		NA	NA	144	78	NA	NA	NA

Note: i = Low spike recovery is high (IRDMIS Qualifier)

o = Low spike recoveries excessively different (IRDMIS Qualifier)

C = Analysis was confirmed (IRDMIS Flag)

J = Value is estimated (IRDMIS Flag)

P = Results less than reporting level but greater than instrumental detection limit (IRDMIS Flag)

R = Non target compound analyzed for but not detected (GC/MS methods) (IRDMIS Flag)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

SVOCs = Semi volatile organic compounds

NA = Not analyzed

mg/kg = Milligrams per kilogram

QST, 1998

Table 5-5. Detection Summary of Total Inorganic Constituents in Janes Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	C-0031	C-0130	C-0242	B117SW01	B117SW02
	RI PHASE:	I	I	I	II	II
CONSTITUENT	DATE:	4/30/91	4/30/91	5/18/91	10/27/95	10/27/95
Metals						
Aluminum		< 0.141	< 0.141	< 0.141	0.0628	2.04
Arsenic		< 0.00254	< 0.00254	0.00672	< 0.0025	< 0.0025
Barium		0.0342	0.0258	0.0155	< 0.025	0.045
Boron		NA	NA	NA	NA	NA
Calcium		91.0	62.0	29.0	32.7	71.9
Copper		< 0.00809	< 0.00809	0.0119	< 0.005	< 0.005
Iron		< 0.0388	0.186	0.293	0.0472	1.57
Lead		0.00217	0.00282	0.00184	0.0059	< 0.002
Magnesium		72.0	35.0	9.89	14.3 j	43.2 j
Manganese		0.0113	0.0967	0.161	< 0.005	0.0433
Potassium		2.12	2.32	23.0	1.14	3.81
Sodium		61.0	43.5	8.02	10.9	26.7
Vanadium		< 0.00382	< 0.00382	< 0.00382	< 0.01	< 0.01
Zinc		0.0238	< 0.0211	0.373	0.178	< 0.02
SLPs						
Alkalinity		NA	NA	NA	NA	NA
Chloride		130	100	NA	NA	NA
Hardness		498	321	NA	NA	NA
Nitrogen, NO2+NO3		0.66	0.33	NA	NA	NA
Solids, total dissolved (TDS)		774	489	NA	NA	NA
Sulfate		118	53.1	NA	NA	NA

Table 5-5. Detection Summary of Total Inorganic Constituents in Janes Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	JRSW02	JRBSW01	JRBSW02	JRBSW03
	RI PHASE:	II	III	III	III
CONSTITUENT	DATE:	2/24/96	9/11/96	9/9/96	9/9/96
Metals					
Aluminum		1.4 i	5.4	0.561	0.113
Arsenic		< 0.0025	0.0027	< 0.0025	< 0.0025
Barium		0.0823	0.0804	0.0509	0.0727
Boron		0.114	0.133	0.149	0.13
Calcium		107	111	91.2	111
Copper		< 0.005	0.00931	< 0.005	< 0.005
Iron		1.16	4.9	0.787	0.933
Lead		< 0.002	0.0065	0.0021	< 0.002
Magnesium		65.5	63.9	55.7 i	68.8 i
Manganese		0.165	0.221	0.193	0.142
Potassium		4.12 i	5.48	3.32	2.6
Sodium		227 i	29.5 i	34.4	33.1
Vanadium		< 0.01	0.0113	< 0.01	< 0.01
Zinc		< 0.02	0.05	< 0.02	< 0.02
SLPs					
Alkalinity		272	280	248	364
Chloride		480	63	84	95
Hardness		614	597	594	744
Nitrogen, NO2+NO3		0.567	0.149	0.0499	0.101
Solids, total dissolved (TDS)		1190	693	678	790
Sulfate		120	160	140	170

Note: i = Low spike recovery is high (IRDMIS Qualifier)
j = Low spike recovery is low (IRDMIS Qualifier)
SLPs = Standard landfill parameters
NA = Not analyzed
mg/L = Milligrams per liter
QST, 1998

Table 5-6. Detection Summary of Dissolved Inorganic Constituents in Janes Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	B117SW01	B117SW02	JRSW02	JRBSW01	JRBSW02	JRBSW03
	RI PHASE:	II	II	II	III	III	III
CONSTITUENT	DATE:	10/27/95	10/27/95	2/24/96	9/11/96	9/9/96	9/9/96
Metals							
Barium		< 0.025 F	0.0346 F	0.0715 F	0.0449 F	0.0472 F	0.0697 F
Boron		NA	NA	0.108 F	0.129 F	0.181 F	0.130 F
Cadmium		0.00501 F	< 0.005 F	< 0.005 F	< 0.005 F	< 0.005 F	< 0.005 F
Calcium		32.1 F	70.4 F	102 F	92.8 F	90.3 F	111 F
Copper		0.0249 F	< 0.005 F	< 0.005 F	0.00921 F	< 0.005 F	< 0.005 F
Iron		0.334 F	0.0644 F	< 0.045 F	< 0.045 F	< 0.045 F	< 0.045 F
Lead		0.0041 F	< 0.002 F	< 0.002 F	< 0.002 F	0.0025 F	< 0.002 F
Magnesium		14.1 Fj	42.3 Fj	62.1 F	54.4 F	54.2 Fi	67.6 Fi
Manganese		0.0149 F	0.0132 F	0.152 F	0.0679 F	0.192 F	0.134 F
Potassium		1.02 F	2.99 F	3.1 Fi	2.9 F	3.14 F	2.66 F
Sodium		10.5 F	26.7 F	217 Fi	26.7 Fi	35.1 F	32.7 F
Zinc		0.396 F	0.0265 F	0.0267 F	< 0.020 F	< 0.020 F	< 0.020 F

Note: i = Low spike recovery is high (IRDMIS Qualifier)

j = Low spike recovery is low (IRDMIS Qualifier)

F = Sample filtered prior to analysis (IRDMIS Flag)

NA = Not analyzed

mg/L = Milligrams per liter

QST, 1998

Table 5-7. Detection Summary of Organic Constituents in Janes Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	C-0031	C-0130	C-0242	B117SW01
	RI PHASE:	I	I	I	II
CONSTITUENT	DATE:	4/30/91	4/30/91	5/18/91	10/27/95
VOC					
Acetone		< 0.013	< 0.013	< 0.013	< 0.01
SVOC					
Butylbenzyl phthalate		< 0.0034	< 0.0034	< 0.0034	< 0.002
Pesticides/Herbicides					
DDD, p,p'-		< 0.00002	< 0.00002	0.0000783	NA
DDT, p,p'-		< 0.00002	< 0.00002	< 0.000027	NA
Hexachlorocyclohexane, gamma- (Lindane)		< 0.00003	< 0.00003	0.000105	NA
Other					
Organic carbon, total (TOC)		4.00	7.23	NA	NA

Table 5-7. Detection Summary of Organic Constituents in Janes Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	B117SW02	JRSW02	JRBSW01	JRBSW02	JRBSW03
	RI PHASE:	II	II	III	III	III
CONSTITUENT	DATE:	10/27/95	2/24/96	9/11/96	9/9/96	9/9/96
VOC						
Acetone		0.014	< 0.01	NA	NA	NA
SVOC						
Butylbenzyl phthalate		< 0.002	0.0021	< 0.002	< 0.002	< 0.002
Pesticides/Herbicides						
DDD, p,p'-		NA	0.000022 C	< 0.000005	< 0.000005	0.0000062 C
DDT, p,p'-		NA	0.000011 C	< 0.000007	< 0.000007	< 0.000007
Hexachlorocyclohexane, gamma- (Lindane)		NA	0.000011 C	< 0.000005	< 0.000005	< 0.000005
Other						
Organic carbon, total (TOC)		NA	3.00	3.19	3.01	2.00

Note: C = Analysis was confirmed (IRDMIS Flag)

VOC = Volatile organic compound

SVOC = Semi-volatile organic compound

NA = Not analyzed

mg/L = Milligrams per liter

QST, 1998

Table 5-8. Janes Ravine Water Quality Field Measurements, Surplus Operable Unit, Fort Sheridan, Illinois

Sample Number	RI Phase	Temperature (Degrees Celsius)	pH	Conductivity (micro mhos)	Dissolved Oxygen (PPM)	Turbidity (NTUs)
B117SW01	II	13.2	8.36	321	NA	1.72
B117SW02	II	13.8	8.93	718	NA	11.0
JRBSW01	III	18.98	7.68	1014	7.65	91.9
JRBSW02	III	17.02	7.14	1071	4.29	NA
JRBSW03	III	16.84	7.40	1216	6.68	NA

PPM = Parts Per Million
NTUs = Nephelometric Turbidity Units
NA = Not Analyzed
QST, 1998

Table 5-9. Detection Summary of Inorganic Constituents in Hutchinson Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

SITE ID:	C-0732	HRSD01	HRSD02		HRSD03	LF2SD01	LF2SD02
RI PHASE:	I	II	II		II	II	II
CONSTITUENT DEPTH:	0.0'	0.0'	0.0'	0.0' Dup	0.0'	0.0'	0.0'
Metals							
Aluminum	9100 *J*	3210	4500	4930 D	5650 *J*	5470	3480
Antimony	3.8 *UJ*	< 5	< 5	< 5 D	5 *U*	< 5	< 5
Arsenic	6.61 *J*	4.66	5.98	5.86 D	5.36 *J*	4.59	5.19
Barium	29.6 *UJ*	< 40	109	< 40 D	53	63.5	< 40
Beryllium	1.86 *UJ*	0.297	0.357	0.282 D	0.468	< 0.2	0.38
Cadmium	3.05 *UJ*	< 0.5	0.823	< 0.5 D	0.5 *U*	< 0.5	< 0.5
Calcium	120000 *J*	35200	34000	38300 D	24500	96300	55800
Chromium, total	12.7 *UJ*	6.73	9.14	9.31 D	11	9.99	6.69
Cobalt	15 *UJ*	7.55	16.8	7.85 D	11.1	6.91	4.52
Copper	58.6 *UJ*	14.2	20.3	19.6 D	23.1	14.9	18.4
Cyanide, total	0.92 *UJ*	< 0.25	< 0.25	< 0.25 D	0.25 *U*	0.783	< 0.25
Iron	17000 *J*	13700	14100	13600 D	18000 *J*	22200	13100
Lead	13.4 *J*	16.8	34.3	28.7 D	24.6	40 i	42.4
Magnesium	58000 *J*	20200	20600	24200 D	14900	54700	29800
Manganese	683 *J*	458	1770	545 D	811	1410	436
Mercury	0.05 *UJ*	< 0.1	< 0.1	< 0.1 D	0.1 *U*	< 0.1	< 0.1
Nickel	41.3 *J*	13.7	26.5	17.1 D	22.1	15.2	11.4
Potassium	2410 *J*	655	919	881 D	862	1250	623
Selenium	0.25 *UJ*	< 0.25	< 0.25	< 0.25 D	0.25 *UJ*	< 0.25	< 0.25
Silver	2.5 *UJ*	< 0.5	< 0.5	< 0.5 D	0.5 *U*	< 0.5	< 0.5
Sodium	906 *J*	471	583	584 D	1180	406	350
Thallium	31.3 r*UJ*	0.358	0.449	0.44 D	0.315 *J*	< 0.25	< 0.25
Vanadium	31 *J*	13.6	15.4	15.2 D	18	13.9	13.4
Zinc	102 *J*	69.3	80.3	89 D	92.3	43.8 i	68.7 i

Table 5-9. Detection Summary of Inorganic Constituents in Hutchinson Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

SITE ID:	LF2SD02	HRBSD01	HRBSD02	HRBSD03	HRBSD04	HRBSD05	
RI PHASE:	II	III	III	III	III	III	
CONSTITUENT DEPTH:	0.0' DUP	0.0'	0.0'	0.0'	0.0'	0.0'	0.0' DUP
Metals							
Aluminum	4260 D	2030 *J*	3510	8160	4410	4720	4180 D
Antimony	< 5 D	5 *U*	7.88	< 5	< 5	8.16	7.14 D
Arsenic	5.83 D	5.89 *iJ*	6.54 i	6.3 i	7.35 i	3.92 i	4.1 Di
Barium	< 40 D	40 *U*	<40	< 40	< 40	58.2	< 40 D
Beryllium	0.319 D	0.531	0.354	0.616	0.837	0.529	0.607 D
Cadmium	< 0.5 D	0.5 *U*	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 D
Calcium	54200 D	42700	56000	76700	47100	52800	46200 D
Chromium, total	8.65 D	4.22 i	6.53 i	15 i	8.61 i	9.51 i	8.51 Di
Cobalt	5.78 D	3.29	7.88	11.1	7.08	6.83	6.67 D
Copper	19.3 D	7.35	15.3	26.5	22.9	21.1	19.4 D
Cyanide, total	< 0.25 D	0.25 *U*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 D
Iron	13800 D	7570 *J*	18000	20600	20800	14200	18500 D
Lead	67.1 D	12 *J*	15	44	43	53	48 D
Magnesium	28300 D	21100	33100	40500	21400	21800	20400 D
Manganese	839 D	296	428	831	1630	1070	878 D
Mercury	0.154 D	0.1 *U*	< 0.1	< 0.1	< 0.1	0.197	0.242 D
Nickel	12.5 D	7.48	16	25	15.5	15.9	14.8 D
Potassium	738 D	402	536	1590	786	759	668 D
Selenium	< 0.25 D	0.25 *UJ*	< 0.25	< 0.25	< 0.25	0.416	< 0.25 D
Silver	< 0.5 D	0.5 *U*	< 0.5	< 0.5	1.05	< 0.5	< 0.5 D
Sodium	335 D	440 *J*	526	826	910	743	570 D
Thallium	< 0.25 D	0.25 *UJ*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 D
Vanadium	13.9 D	7.74	11.5	18.7	12.4	12.7	12.1 D
Zinc	81.9 Di	22.3	44	73.2	92	92	77.6 D

Note: i = Low spike recovery is high (IRDMIS Qualifier)

r = Data is rejected (IRDMIS Qualifier)

D = Duplicate analysis (IRDMIS Flag)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

mg/kg = Milligrams per kilogram

QST, 1998

Table 5-10. Detection Summary of Organic Constituents in Hutchinson Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	C-0732	HRSD01	HRSD02		HRSD03
	RI PHASE:	I	II	II		II
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0'	0.0' Dup	0.0'
SVOCs						
Acenaphthene		< 0.036	< 0.133	2.16	2.74 D	0.214 *UJ*
Acenaphthylene		< 0.033	< 0.133	0.207	< 0.133 D	0.133 *U*
Anthracene		< 0.033	0.62	4.9	4.9 D	0.33 *UJ*
Benzo(a)anthracene		< 0.17	0.48	0.84	0.99 D	0.091 *U*
Benzo(a)pyrene		< 0.25	0.42	1	1.1 D	0.11 *UJ*
Benzo(b)fluoranthene		< 0.21	0.42	1	1.1 D	0.13 *U*
Benzo(g,h,i)perylene		< 0.25	0.24	0.8	< 1.3 D	0.13 *U*
Benzo(k)fluoranthene		0.088	0.31	0.52	0.54 D	0.062 *UJ*
Bis(2-ethylhexyl) phthalate		< 0.62	< 0.14	< 0.14	0.36 D	0.14 *U*
Carbazole		NA	< 0.14	< 0.14	< 0.14 D	0.14 *U*
Chrysene		0.25	0.51	0.81	0.83 D	0.13 *U*
Dibenzo(a,h)anthracene		< 0.21	< 0.082	0.21	< 0.66 D	0.066 *U*
Dibenzofuran		< 0.035	< 0.14	< 0.14	< 0.14 D	0.14 *U*
Fluoranthene		0.34	1.2	2.3	2.4 D	0.3
Fluorene		< 0.033	0.139 j	0.13 j	0.156 Dj	0.033 *jU*
Indeno(1,2,3-cd)pyrene		< 0.29	0.28	< 0.66	< 0.66 D	0.094 *U*
Methylnaphthalene, 1-		NA	< 0.133	1.09	1.03 D	0.398
Methylnaphthalene, 2-		0.13	< 0.133	2.35	3.08 D	0.271 *U*
Naphthalene		< 0.037	< 0.133	2.93	1.69 D	0.133 *U*
Phenanthrene		0.15	0.85	1.9	2.4 D	0.18 *U*
Pyrene		0.41	1.6	5.7	4.9 D	0.55 *J*

Table 5-10. Detection Summary of Organic Constituents in Hutchinson Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	C-0732	HRSD01	HRSD02		HRSD03
	RI PHASE:	I	II	II		II
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0'	0.0' Dup	0.0'
Pesticides/Herbicides						
Aldrin		< 0.33 R	< 0.003	< 0.003	< 0.003 D	0.003 *U*
Chlordane, alpha-		< 0.33 R	0.0037 C	< 0.003	< 0.003 D	0.003 *U*
Chlordane, gamma-		< 0.33 R	0.00705 C	< 0.003	< 0.003 D	0.003 *U*
Chlordane, total		NA	0.117 C	< 0.02	< 0.02 D	0.02 *U*
DDD, p,p'-		0.58 R*NJ*	1.9 C	0.18 C	0.19 CD	0.42 C*J*
DDE, p,p'-		< 0.31 R	0.25 C	0.53 C	0.56 CD	0.19 C
DDT, p,p'-		< 0.31 R	0.49 C	0.53 C	0.59 CD	0.24 C*J*
Endrin		< 0.45 R	0.0203 C	< 0.003	< 0.003 D	0.003 *U*
Hexachlorocyclohexane, gamma- (Lindane)		< 0.27 R	0.00514 C	< 0.003	< 0.003 D	0.003 *U*
2,4,5-T		NA	< 0.01	< 0.01	< 0.01	0.01 *U*
Other						
Organic carbon, total (TOC)		NA	NA	NA	NA	NA
Petroleum hydrocarbons, total (TPH)		NA	57.3	37.2	58.5 D	34.4

Table 5-10. Detection Summary of Organic Constituents in Hutchinson Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2SD01	LF2SD02		HRBSD01	HRBSD02
	RI PHASE:	II	II		III	III
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0' Dup	0.0'	0.0'
SVOCs						
Acenaphthene		0.326 k	0.863 k	1.06 Dk	0.14 *U*	0.8
Acenaphthylene		1.73 k	1.04 k	0.732 Dk	0.14 *U*	< 0.3
Anthracene		2 k	1 k	4.8 Dk	0.14 *U*	3
Benzo(a)anthracene		0.071 k	0.36 k	0.15 Dk	0.26	5
Benzo(a)pyrene		0.071 k	0.37 k	0.19 Dk	0.21	4
Benzo(b)fluoranthene		0.089 k	0.35 k	0.19 Dk	0.18	4
Benzo(g,h,i)perylene		0.12 k	< 0.34 k	< 0.13 Dk	0.16 *U*	2
Benzo(k)fluoranthene		0.027 k	0.17 k	0.061 Dk	0.18	3
Bis(2-ethylhexyl) phthalate		< 0.14	< 0.7	< 0.3 D	0.14 *UJ*	< 0.3
Carbazole		< 0.14	< 0.7	< 0.3 D	0.14 *U*	1
Chrysene		1.9 k	0.59 k	3.2 Dk	0.26	4
Dibenzo(a,h)anthracene		< 0.033 k	< 0.16 k	< 0.066 Dk	0.16 *U*	0.6
Dibenzofuran		< 0.14	< 0.7	< 0.3 D	0.14 *U*	0.6
Fluoranthene		0.22 k	0.82 k	0.58 Dk	0.72	10
Fluorene		0.122 k	0.237 k	0.129 Dk	0.14 *U*	1
Indeno(1,2,3-cd)pyrene		< 0.033 k	0.23 k	< 0.066 Dk	0.16 *U*	2
Methylnaphthalene, 1-		2.1 k	3.83 k	1.94 Dk	NA	NA
Methylnaphthalene, 2-		3.67 k	2	< 0.3 D	0.14 *U*	< 0.3
Naphthalene		1.03 k	2.39 k	1.9 Dk	0.14 *U*	< 0.3
Phenanthrene		0.97 k	< 1.6 k	2.1 Dk	0.44	10
Pyrene		0.11 k	1.3 k	0.55 Dk	0.5	8

Table 5-10. Detection Summary of Organic Constituents in Hutchinson Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2SD01	LF2SD02		HRBSD01	HRBSD02
	RI PHASE:	II	II		III	III
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0' Dup	0.0'	0.0'
Pesticides/Herbicides						
Aldrin		0.00433 Co	0.0347 Co	0.0159 DCo	0.003 io*U*	< 0.003 io
Chlordane, alpha-		< 0.003	< 0.003	< 0.003 D	0.003 io*U*	< 0.003 io
Chlordane, gamma-		< 0.003	0.00458 C	< 0.003 D	0.003 io*U*	< 0.003 io
Chlordane, total		< 0.02	< 0.04	< 0.02 D	0.0415 Cio	< 0.02 io
DDD, p,p'-		0.0107 C	0.14 C	0.3 DC	1.4 Cio*J*	0.075 Cio
DDE, p,p'-		0.00731 C	0.0333 C	0.058 DC	0.11 Cio	0.00941 Cio
DDT, p,p'-		0.00528 C	0.12 C	0.23 DC	0.83 Cio*J*	0.0176 Cio
Endrin		< 0.003	< 0.003	< 0.003 D	0.0118 Cio	< 0.003 io
Hexachlorocyclohexane, gamma- (Lindane)		< 0.003	< 0.003	< 0.003 D	0.00628 Cio	< 0.003 io
2,4,5-T		< 0.01	< 0.01	0.0493 DC	NA	NA
Other						
Organic carbon, total (TOC)		NA	NA	NA	19800 *J*	28900
Petroleum hydrocarbons, total (TPH)		89.2	63.5	80.7 D	NA	NA

Table 5-10. Detection Summary of Organic Constituents in Hutchinson Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	HRBSD03	HRBSD04	HRBSD05	
	RI PHASE:	III	III	III	
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0'	0.0' Dup
SVOCs					
Acenaphthene		2	< 0.3	< 0.3	< 0.14 D
Acenaphthylene		< 0.7	< 0.3	< 0.3	< 0.14 D
Anthracene		7	< 0.3	< 0.3	< 0.14 D
Benzo(a)anthracene		10	< 0.3	< 0.3	< 0.14 D
Benzo(a)pyrene		8	< 0.3	< 0.3	< 0.14 D
Benzo(b)fluoranthene		8	< 0.3	< 0.3	< 0.14 D
Benzo(g,h,i)perylene		4	< 0.3	< 0.3	< 0.16 D
Benzo(k)fluoranthene		5	< 0.3	< 0.3	< 0.14 D
Bis(2-ethylhexyl) phthalate		< 0.7	< 0.3	< 0.3	< 0.14 D
Carbazole		2	< 0.3	< 0.3	< 0.14 D
Chrysene		10	< 0.3	< 0.3	< 0.14 D
Dibenzo(a,h)anthracene		< 0.8	< 0.3	< 0.3	< 0.16 D
Dibenzofuran		2	< 0.3	< 0.3	< 0.14 D
Fluoranthene		30	< 0.3	< 0.3	< 0.14 D
Fluorene		4	< 0.3	< 0.3	< 0.14 D
Indeno(1,2,3-cd)pyrene		4	< 0.3	< 0.3	< 0.16 D
Methylnaphthalene, 1-		NA	NA	NA	NA
Methylnaphthalene, 2-		< 0.7	< 0.3	< 0.3	< 0.14 D
Naphthalene		< 0.7	< 0.3	< 0.3	< 0.14 D
Phenanthrene		30	0.7	< 0.3	< 0.14 D
Pyrene		20	< 0.3	< 0.3	< 0.14 D

Table 5-10. Detection Summary of Organic Constituents in Hutchinson Ravine Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	HRBSD03	HRBSD04	HRBSD05	
	RI PHASE:	III	III	III	
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0'	0.0' Dup
Pesticides/Herbicides					
Aldrin		< 0.003 io	0.0169 Cio	< 0.003 io	< 0.003 Dio
Chlordane, alpha-		0.086 Cio	< 0.003 io	< 0.003 io	< 0.003 Dio
Chlordane, gamma-		0.0944 Cio	< 0.003 io	< 0.003 io	< 0.003 Dio
Chlordane, total		0.93 Cio	0.0694 Cio	< 0.02 io	0.0265 DCPJio
DDD, p,p'-		10 Cio	0.118 Cio	0.0574 Cio	0.0463 DCio
DDE, p,p'-		0.59 Cio	0.0367 Cio	0.0172 Cio	0.0357 DCio
DDT, p,p'-		0.93 Cio	0.0286 Cio	0.0803 Cio	0.0212 DCio
Endrin		< 0.003 io	< 0.003 io	< 0.003 io	< 0.003 Dio
Hexachlorocyclohexane, gamma- (Lindane)		< 0.003 io	< 0.003 io	< 0.003 io	< 0.003 Dio
2,4,5-T		NA	NA	NA	NA
Other					
Organic carbon, total (TOC)		53300	91200	38000	57000 D
Petroleum hydrocarbons, total (TPH)		NA	NA	NA	NA

Note: i = Low spike recovery is high (IRDMIS Qualifier)

j = Low spike recovery is low (IRDMIS Qualifier)

k = Missed holding time for extraction and preparation (IRDMIS Qualifier)

o = Low spike recoveries excessively different (IRDMIS Qualifier)

C = Analysis was confirmed (IRDMIS Flag)

D = Duplicate analysis (IRDMIS Flag)

J = Value is estimated (IRDMIS Flag)

P = Results less than reporting level but greater than instrumental detection limit (IRDMIS Flag)

R = Non target compound analyzed for but not detected (GC/MS methods) (IRDMIS Flag)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

NA = Not analyzed

SVOCs = Semi-volatile organic compounds

mg/kg = Milligrams per kilogram

QST, 1998

Table 5-11. Detection Summary of Total Inorganic Constituents in Hutchinson Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / RI PHASE: / DATE:	C-0732 / I / 5/2/91	HRSW01 / II / 2/21/96	HRSW02 / II / 2/21/96	HRSW03 / II / 2/22/96	HRSW03 Dup / II / 2/22/96	LF2SW01 / II / 11/6/95
Metals							
Aluminum		<0.141	0.178 i	0.0577 i	0.553 i	0.426 Di	1.29
Arsenic		<0.00254	0.0025 *UJ*	<0.0025	<0.0025	<0.0025 D	<0.0025
Barium		0.0548	0.0589	0.0629	0.0748	0.0743 D	0.105
Boron		NA	0.121*U*	0.115	0.0959	0.115 D	NA
Calcium		110	134	125	102	100 D	147
Cyanide, total		<0.0025	0.0025 *U*	<0.0025	0.00567	0.00499 D	<0.0025
Iron		<0.0388	0.601	0.123	1.33	1.11 D	5.12
Lead		<0.00126	0.002 *UJ*	<0.002	<0.002	<0.002 D	<0.002
Magnesium		66.0	72.7	69.8	49.2	48.6 D	66.3
Manganese		0.478	0.204	0.226	0.219	0.237 D	1.77
Potassium		3.44	3.85 i	3.87 i	5.73 i	5.68 Di	7.11
Sodium		220	149 i	178 i	550 i	530 Di	204
Zinc		0.0732	0.02 *U*	<0.02	<0.02	<0.02 D	<0.02
SLPs							
Alkalinity		NA	385	376	285	296 D	NA
Chemical oxygen demand (COD)		<50	5 *U*	359	18.7	15 D	NA
Chloride		550	300	350	1000	1000 D	NA
Fluoride		<1.23	5 *U*	<0.5	<0.5	<0.5 D	NA
Hardness		722	714	656	538	504 D	NA
Nitrogen, NO2+NO3		0.3	0.172	0.398	0.96	0.88 D	NA
Solids, total dissolved (TDS)		1240	1120	1180	2070	2010 D	NA
Sulfate		93.6	200	180	86	86 D	NA

Table 5-11. Detection Summary of Total Inorganic Constituents in Hutchinson Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / RI PHASE: / DATE:	LF2SW01 Dup II 11/7/95	LF2SW02 II 11/6/95	HRBSW01 III 9/11/96	HRBSW02 III 9/10/96
Metals					
Aluminum		0.96 D	2.36	0.0542	0.538
Arsenic		<0.0025 D	0.0027	<0.0025	<0.0025
Barium		0.108 D	0.0971	0.0471	0.0568
Boron		NA	NA	0.146	0.154
Calcium		150 D	151	97.9	102
Cyanide, total		<0.0025 D	<0.0025	<0.0025	<0.0025
Iron		7.14 D	4.1	0.238	0.677
Lead		0.002 DPJ	0.0077	<0.002	<0.002
Magnesium		67.2 D	70.8	54.5 i	62.9 i
Manganese		1.81 D	0.395	0.0637	0.0493
Potassium		6.83 D	8.86	3.79	3.95
Sodium		195 D	177	39.9	58.3
Zinc		<0.02 D	0.0201	<0.02	<0.02
SLPs					
Alkalinity		NA	NA	332	300
Chemical oxygen demand (COD)		NA	NA	7.5	5.6
Chloride		NA	NA	110	150
Fluoride		NA	NA	0.54	<0.5
Hardness		NA	NA	585	561
Nitrogen, NO2+NO3		NA	NA	0.28	0.603
Solids, total dissolved (TDS)		NA	NA	723	814
Sulfate		NA	NA	130	140

Table 5-11. Detection Summary of Total Inorganic Constituents in Hutchinson Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	HRBSW03	HRBSW04	HRBSW05	HRBSW05 Dup
	RI PHASE:	III	III	III	III
CONSTITUENT	DATE:	9/10/96	9/12/96	9/11/96	9/11/96
Metals					
Aluminum		0.115	0.351	0.96	1.27 D
Arsenic		<0.0025	<0.0025	<0.0025	<0.0025 D
Barium		0.0544	0.0785	0.0711	0.0772 D
Boron		0.14	0.17	0.174	0.165 D
Calcium		101	105	105	109 D
Cyanide, total		<0.0025	<0.0025	<0.0025	<0.0025 D
Iron		0.285	1.58	1.97	2.69 D
Lead		0.0039	0.0023	0.0035	0.0059 D
Magnesium		62.1 i	50.6	51.7	53.8 D
Manganese		0.037	1.15	0.211	.275 D
Potassium		3.58	5.28	5.71	5.97 D
Sodium		58.2	86.1 i	90.8 i	93.2 Di
Zinc		<0.02	<0.02	<0.02	<0.02 D
SLPs					
Alkalinity		376	424	368	392 D
Chemical oxygen demand (COD)		11.3	13.1	9.4	11.3 D
Chloride		140	180	180	190 D
Fluoride		<0.5	<0.5	<0.5	<0.5 D
Hardness		550	536	533	529 D
Nitrogen, NO2+NO3		0.23	0.253	0.568	.62 D
Solids, total dissolved (TDS)		901	802	824	808 D
Sulfate		160	19	33	33 D

Note: i = Low spike recovery is high (IRDMIS Qualifier)

D = Duplicate analysis (IRDMIS Flag)

J = Value is estimated (IRDMIS Flag)

P = Results less than reporting level but greater than instrumental detection limit (IRDMIS Flag)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

NA = Not analyzed

SLPs = Standard landfill parameters

mg/L = Milligrams per liter

QST, 1998

Table 5-12. Detection Summary of Dissolved Inorganic Constituents in Hutchinson Ravine Surface Water Samples, (mg/L) Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	HRSW01	HRSW02	HRSW03	HRSW03 Dup	LF2SW01	LF2SW01 Dup	LF2SW02
	RI PHASE:	II	II	II	II	II	II	II
CONSTITUENT	DATE:	2/21/96	2/21/96	2/22/96	2/22/96	11/6/95	11/7/95	11/6/95
Metals								
Aluminum		< 0.040 Fi	< 0.040 Fi	< 0.040 Fi	< 0.040 DFi	< 0.040 F	< 0.040 DF	< 0.040 F
Barium		0.0562 F	0.0609 F	0.0678 F	0.0678 DF	0.0872 F	0.0813 DF	0.0736 F
Boron		0.112 F	0.093 F	0.1 F	0.0936 DF	NA	NA	NA
Calcium		133 F	120 F	97.5 F	96.1 DF	144 F	141 DF	140 F
Iron		0.2 F	< 0.045 F	0.0852 F	0.11 DF	< 0.045 F	0.256 DF	< 0.045 F
Magnesium		72.4 F	67.7 F	47.3 F	46.9 DF	65.1 F	63.7 DF	66.7 F
Manganese		0.192 F	0.216 F	0.199 F	0.208 DF	1.44 F	1.42 DF	0.0469 F
Potassium		4.73 Fi	3.45 Fi	5.49 Fi	4.97 DFi	6.57 F	6.25 DF	7.65 F
Sodium		149 Fi	175 Fi	550 Fi	520 DFi	204 F	188 DF	176 F

Table 5-12. Detection Summary of Dissolved Inorganic Constituents in Hutchinson Ravine Surface Water Samples, (mg/L) Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	HRBSW01	HRBSW02	HRBSW03	HRBSW04	HRBSW05	HRBSW05 Dup
	RI PHASE:	III	III	III	III	III	III
CONSTITUENT	DATE:	9/11/96	9/10/96	9/10/96	9/12/96	9/11/96	9/11/96
Metals							
Aluminum		< 0.040 F	< 0.040 F	0.242 F	< 0.040 F	< 0.040 F	< 0.040 DF
Barium		0.0495 F	0.0524 F	0.0667 F	0.0755 F	0.0726 F	0.0665 DF
Boron		0.145 F	0.119 F	0.162 F	0.175 F	0.172 F	0.175 DF
Calcium		103 F	98.7 F	122 F	106 F	100 F	96 DF
Iron		< 0.045 F	< 0.045 F	0.14 F	< 0.045 F	< 0.045 F	< 0.045 DF
Magnesium		55.7 Fi	60.3 Fi	68.3 Fi	51.3 F	51.2 F	49 DF
Manganese		0.0652 F	0.0355 F	0.195 F	1.1 F	0.156 F	0.128 DF
Potassium		4.02 F	3.51 F	3.03 F	5.5 F	5.46 F	5.13 DF
Sodium		41.7 F	58.7 F	51.4 F	87.8 Fi	92.1 F	88.7 DFi

Note: i = Low spike recovery is high (IRDMIS Qualifier)

D = Duplicate analysis (IRDMIS Flag)

F = Sample filtered prior to analysis (IRDMIS Flag)

NA = Not analyzed

mg/L = Milligrams per liter

QST, 1998

Table 5-13. Detection Summary of Organic Constituents in Hutchinson Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / RI PHASE: / DATE:	C-0732 / I / 5/2/91	HRSW01 / II / 2/21/96	HRSW02 / II / 2/21/96	HRSW03 / II / 2/22/96	HRSW03 Dup / II / 2/22/96	LF2SW01 / II / 11/6/95
VOCs							
Acetone		< 0.013	0.010 *U*	0.079	< 0.010	< 0.010 D	< 0.010
Chloromethane		< 0.032	0.002 *U*	0.012	< 0.002	< 0.002 D	< 0.002
SVOCs							
Anthracene		< 0.0005	0.000136 *U*	0.000206	0.00119	0.000703 D	< 0.002
Benzo(a)pyrene		< 0.0047	0.00001 *U*	< 0.00001	0.000189	0.0000107 D	< 0.002
Benzo(k)fluoranthene		< 0.00087	0.00001 *U*	< 0.00001	0.0000125	< 0.00001 D	< 0.002
Bis(2-ethylhexyl) phthalate		< 0.0048	0.002 *U*	< 0.002	< 0.002	< 0.002 D	0.014
Butylbenzyl phthalate		< 0.0034	0.002 *U*	0.003	< 0.002	< 0.002 D	< 0.002
Fluoranthene		< 0.0033	0.0000203 *U*	0.0000268	0.000129	0.0000754 D	< 0.002
Pyrene		< 0.0028	0.0001 *U*	< 0.0001	0.000369	0.000191 D	< 0.002
Pesticides/Herbicides							
DDD, p,p'-		< 0.004 R	0.00011 C	0.000046 C	0.00011 C	0.000087 DC	< 0.000005
DDE, p,p'-		< 0.0047 R	0.000007 *U*	< 0.000007	0.000013 C	0.000011 DC	< 0.000007
DDT, p,p'-		< 0.0092 R	0.000007 *U*	0.0000071 C	0.000024 C	0.000160 DC	< 0.000007 jo
Hexachlorocyclohexane, gamma- (Lindane)		< 0.004 R	0.000005 *U*	< 0.000005	0.00001 C	0.000011 DC	< 0.000005
Other							
Organic carbon, total (TOC)		4.71	1 *U*	80	2.69	5.17 D	NA

Table 5-13. Detection Summary of Organic Constituents in Hutchinson Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2SW01 Dup	LF2SW01	LF2SW01 Dup	LF2SW02	LF2SW02
	RI PHASE:	II	II	II	II	II
CONSTITUENT	DATE:	11/7/95	11/15/95	11/15/95	11/6/95	11/15/95
VOCs						
Acetone		< 0.010 D	NA	NA	< 0.010	NA
Chloromethane		< 0.002 D	NA	NA	< 0.002	NA
SVOCs						
Anthracene		< 0.002 D	< 0.0001	< 0.0001 D	< 0.002	< 0.0001
Benzo(a)pyrene		< 0.002 D	< 0.00001	< 0.00001 D	< 0.002	< 0.00001
Benzo(k)fluoranthene		< 0.002 D	< 0.00001	< 0.00001D	< 0.002	< .00001
Bis(2-ethylhexyl) phthalate		< 0.002 D	NA	NA	< 0.002	NA
Butylbenzyl phthalate		< 0.002 D	NA	NA	< 0.002	NA
Fluoranthene		< 0.002 D	< 0.00002	< 0.00002 D	< 0.002	< 0.00002
Pyrene		< 0.002 D	< 0.0001	<. 00001 D	< 0.002	< 0.00001
Pesticides/Herbicides						
DDD, p,p'-		< 0.000005 D	NA	NA	<. 0000005	NA
DDE, p,p'-		< 0.000007 D	NA	NA	< 0.000007	NA
DDT, p,p'-		< 0.000007 Djo	NA	NA	< 0.000007 jo	NA
Hexachlorocyclohexane, gamma- (Lindane)		< 0.000005 D	NA	NA	< 0.000005	NA
Other						
Organic carbon, total (TOC)		NA	NA	NA	NA	NA

Table 5-13. Detection Summary of Organic Constituents in Hutchinson Ravine Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	HRBSW01	HRBSW02	HRBSW03	HRBSW04	HRBSW05	HRBSW05 Dup
	RI PHASE:	III	III	III	III	III	III
CONSTITUENT	DATE:	9/11/96	9/10/96	9/10/96	9/12/96	9/11/96	9/11/96
VOCs							
Acetone		NA	NA	NA	NA	NA	NA
Chloromethane		NA	NA	NA	NA	NA	NA
SVOCs							
Anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 D
Benzo(a)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 D
Benzo(k)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 D
Bis(2-ethylhexyl) phthalate		0.0027	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 D
Butylbenzyl phthalate		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 D
Fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 D
Pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 D
Pesticides/Herbicides							
DDD, p,p'-		0.000035 C	0.000051	0.00009 C	< 0.000005	< 0.000005	< 0.000005 D
DDE, p,p'-		< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007 D
DDT, p,p'-		< 0.000007	< 0.000007	0.000012 C	< 0.000007	< 0.000007	0.000022 DC
Hexachlorocyclohexane, gamma- (Lindane)		< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005 D
Other							
Organic carbon, total (TOC)		4.73	8.76	5.79	9.23	7.78	7.6 D

Note: j = Low spike recovery is high (IRDMIS Qualifier)

o = Low spike recoveries excessively different (IRDMIS Qualifier)

C = Analysis was confirmed (IRDMIS Flag)

D = Duplicate analysis (IRDMIS Flag)

R = Non target compound analyzed for but not detected (GC/MS methods) (IRDMIS Flag)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

NA = Not analyzed

mg/L = Milligrams per liter

QST, 1998

Table 5-14. Hutchinson Ravine Water Quality Field Measurements, Surplus Operable Unit, Fort Sheridan, Illinois

Sample Number	RI Phase	Temperature (Degrees Celsius)	pH	Conductivity (micro mhos)	Dissolved Oxygen (PPM)	Turbidity (NTUs)
HRBSW01	III	18.42	7.71	1085	8.12	3.74
HRBSW02	III	17.66	7.56	1245	8.15	6.75
HRBSW03	III	17.22	7.36	1363	7.55	6.95
HRBSW04	III	14.85	7.60	1312	5.84	6.48
HRBSW05	III	19.48	7.72	1317	7.79	2.21
LF2SW01	II	8.50	8.11	NA	NA	4.90
LF2SW02	II	6.50	8.70	NA	NA	0.42

PPM = Parts Per Million
NTUs = Nephelometric Turbidity Units
NA = Not Analyzed
QST, 1998

Table 5-15. Detection Summary of Inorganic Constituents in Beach Area Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2SB04D	LF2SB05D	LF2SB06D	LF2SB07D	LF2SB08D			LF2SB09D	C-300
	RI PHASE:	I	I	I	I	I			I	I
CONSTITUENT	DEPTH:	6.0'	6.0'	0.0'	6.0'	0.0'	2.0'	4.0'	4.0'	0.0'
Metals										
Aluminum		8000 *J*	2000 *J*	2600 *J*	12000 *J*	1200 *J*	980 *J*	1170 *J*	1320 *J*	6400 *J*
Antimony		20 *J*	22.4 *J*	17.8 *J*	12.3 *J*	3.8 *JU*	3.8 *JU*	3.8 *JU*	3.8 *UJ*	3.8 *UJ*
Arsenic		5.35 *J*	5.56 *J*	3.53 *U*	10.4 *J*	6.3 *J*	6.89 *J*	2.98 *J*	2.83 *J*	4.82 *J*
Beryllium		1.86 *UJ*	1.86 *UJ*	1.86 *UJ*	1.86 *UJ*	1.86 *UJ*	1.86 *UJ*	1.86 *UJ*	1.86 *UJ*	1.86 *UJ*
Calcium		120000 *J*	210000 *J*	120000 *J*	100000 *J*	80000 *J*	74000 *J*	32800 *J*	52700 *J*	85000 *J*
Chromium, total		12.7 *UJ*	12.7 *UJ*	12.7 *UJ*	12.7 *UJ*	12.7 *UJ*	12.7 *UJ*	12.7 *UJ*	12.7 *UJ*	12.7 *UJ*
Cobalt		15 *UJ*	15 *UJ*	15 *UJ*	15 *UJ*	15 *UJ*	15 *UJ*	15 *UJ*	15 *UJ*	15 *UJ*
Copper		58.6 *UJ*	58.6 *UJ*	58.6 *UJ*	58.6 *UJ*	58.6 *UJ*	58.6 *UJ*	58.6 *UJ*	58.6 *UJ*	58.6 *UJ*
Iron		15000 *J*	11000 *J*	8500 *J*	19000 *J*	4270 *J*	10100 *J*	4700 *J*	6410 *J*	13000 *U*
Lead		9.77 *J*	31.4 *J*	6.62 *UJ*	6.62 *UJ*	6.74 *J*	19.7 *J*	6.62 *UJ*	10.2 *J*	14.6 *J*
Magnesium		53000 *J*	110000 *J*	54000 *J*	46000 *J*	44100 *J*	39600 *J*	17800 *J*	27600 *J*	39000 *J*
Manganese		564 *J*	413 *J*	392 *J*	562 *J*	273 *J*	617 *J*	277 *J*	335 *J*	627 *J*
Nickel		31.9 *J*	12.6 *UJ*	12.6 *UJ*	41.3 *J*	12.6 *UJ*	12.6 *UJ*	12.6 *UJ*	12.6 *UJ*	27.8 *J*
Potassium		2360 *J*	507 *J*	322 *J*	3170 *J*	299 *J*	195 *J*	239 *J*	232 *J*	2010 *J*
Sodium		443 *J*	372 *J*	397 *J*	570 *J*	318 *J*	269 *J*	543 *J*	150 *UJ*	478 *J*
Thallium		31.3 r*UJ*	31.3 r*UJ*	31.3 r*UJ*	31.3 r*UJ*	31.3 r*UJ*	31.3 r*UJ*	31.3 r*UJ*	31.3 r*UJ*	31.3 r*UJ*
Vanadium		32.6 *J*	33.3 *J*	23.5 *J*	43 *J*	13 *UJ*	13 *UJ*	13 *UJ*	13 *UJ*	33.9 *J*
Zinc		88.3 *J*	30.2 *UJ*	62.3 *J*	77.2 *J*	30.2 *UJ*	126 *J*	30.2 *UJ*	< 83.9 *J*	140 *J*

Table 5-15. Detection Summary of Inorganic Constituents in Beach Area Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	C-0690	C-0692	OD-1	FTRSB01		FTRSB02		TRSD01	TRSD02	JRBSD06
	RI PHASE:	I	I	I	II		II		II	II	III
CONSTITUENT	DEPTH:	0.0'	0.0'	0.0'	0.5'	5.0'	0.5'	5.0'	0.0'	0.0'	0.0'
Metals											
Aluminum		1710 *U*	1880 *U*	3320 *U*	1510	1890	1280	539	1450	1430	1540
Antimony		3.8 *UJ*	3.8 *UJ*	3.8 *UJ*	< 5	< 5	< 5	< 5	< 5	< 5	6.9
Arsenic		5.71 *J*	6.46 *J*	13.1 *J*	3.5	6.2	4.3	3.7	3.04	2.79	4.53 i
Beryllium		1.86 *UJ*	1.86 *UJ*	1.86 *UJ*	< 0.2	< 0.2	< 0.2	< 0.2	0.341	< 0.2	< 0.2
Calcium		91000 *J*	83000 *J*	77000 *J*	50100	80600	37600	70900	54700	45800	66300
Chromium, total		12.7 *UJ*	12.7 *UJ*	12.7 *UJ*	4.34	4.48	4.22	1.75	4.08	4.63	4.68 i
Cobalt		15 *UJ*	15 *UJ*	15 *UJ*	2.02	4.49	2.11	2.24	< 2	< 2	3.51
Copper		58.6 *UJ*	58.6 *UJ*	58.6 *UJ*	5.55	13.8	3.9	5.54	6.74 j	7.37 j	8.06
Iron		6400 *U*	11000 *U*	11000 *J*	7610	17800	6450	4800	6850	5690	8170
Lead		6.62 *UJ*	13.3 *J*	11.18 *J*	5.2 i	19 i	5.56 i	5.24 i	3.59 j	5.46 j	4.41
Magnesium		46000 *J*	39000 *J*	41000 *J*	28200	46600	20900	40100	31900	23200	37800
Manganese		450 *J*	478 *J*	602 *J*	289	408	214	339	360	277	377
Nickel		12.6 *UJ*	12.6 *UJ*	12.6 *UJ*	5.94	11.3	4.63	4.47	4.68	4.89	6.47
Potassium		279 *U*	485 *U*	1000 *U*	215	280	153	< 100	307	254	218
Sodium		476 *J*	463 *U*	484 *J*	125	245	205	180	344	382	513
Thallium		31.3 r*UJ*	31.3 r*UJ*	31.3 r*UJ*	< 0.25	0.471	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium		13 *UJ*	59 *J*	13 *UJ*	12.2	13.4	13.2	< 2.5	13.4	7.14	5.98
Zinc		30.2 *UJ*	66.6 *J*	30.2 *UJ*	22.8 i	39 i	24.4 i	20.1 i	38.1	22.3	21.8

Note: i = Low spike recovery is high (IRDMIS Qualifier)

j = Low spike recovery is low (IRDMIS Qualifier)

r = Data is rejected (IRDMIS Qualifier)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

mg/kg = Milligrams per kilogram

QST, 1998

Table 5-16. Detection Summary of Organic Consituents in Beach Area Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2SB04D	LF2SB05D	LF2SB06D	LF2SB07D	LF2SB08D		
	RI PHASE	I	I	I	I	I		
CONSTITUENT	DEPTH:	6.0'	6.0'	0.0'	6.0'	0.0'	2.0'	4.0'
VOCs								
Acetone		< 0.1	< 0.017	< 0.017	0.045 *J*	< 0.017	< 0.017	< 0.017
Chloroform		0.0034	0.0014	< 0.00087	0.0014 *J*	< 0.00087	< 0.00087	< 0.00087
Toluene		0.0015	< 0.00078	< 0.00078	0.0068 *J*	< 0.00078	< 0.00078	0.002
Trichlorofluoromethane		NA	NA	NA	NA	NA	NA	NA
Xylenes, total		0.0056	< 0.0015	< 0.0015	0.0063 *J*	< 0.0015	< 0.0015	0.0061
SVOCs								
Acenaphthene		< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036
Anthracene		< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
Benzo(a)anthracene		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo(a)pyrene		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Benzo(b)fluoranthene		< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Benzo(g,h,i)perylene		< 0.25	0.25 *UJ*	0.25 *UJ*	< 0.25	< 0.25	< 0.25	< 0.25
Benzo(k)fluoranthene		< 0.066	0.17	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
Chrysene		< 0.12	0.33	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Dibenzo(a,h)anthracene		< 0.21	< 0.21	< 0.21	< 0.21	0.21 *UJ*	0.21 *UJ*	0.21 *UJ*
Fluoranthene		< 0.068	0.21	< 0.068	< 0.068	< 0.068	0.11	< 0.068
Indeno(1,2,3-cd)pyrene		< 0.29	< 0.29	< 0.29	< 0.29	0.29 *UJ*	0.29 *UJ*	0.29 *UJ*
Methylnaphthalene, 2-		< 0.049	< .049	< 0.049	0.1	< 0.049	< 0.049	< 0.049
Phenanthrene		0.045	0.11	< 0.033	0.082	< 0.033	0.042	< 0.033
Pyrene		< 0.033	0.29	< 0.033	0.033 *UJ*	< 0.033	0.097	< 0.033

Table 5-16. Detection Summary of Organic Consituents in Beach Area Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2SB04D	LF2SB05D	LF2SB06D	LF2SB07D	LF2SB08D		
	RI PHASE	I	I	I	I	I		
CONSTITUENT	DEPTH:	6.0'	6.0'	0.0'	6.0'	0.0'	2.0'	4.0'
Pesticides/Herbicides								
Chlordane, total		NA	NA	NA	NA	NA	NA	NA
DDD, p,p'-		< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R
DDE, p,p'-		< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R
DDT, p,p'-		< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R
Hexachlorocyclohexane, gamma- (Lindane)		< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R
Explosive								
Dinitrobenzene, 1,3-		< 0.496	< 0.496	< 0.496	< 0.496	< 0.496	< 0.496	< 0.496
Other								
Organic Carbon, total		NA	NA	NA	NA	NA	NA	NA

Table 5-16. Detection Summary of Organic Consituents in Beach Area Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2SB09D	C-0300	C-0690	C-0692	OD-1
	RI PHASE	I	I	I	I	I
CONSTITUENT	DEPTH:	4.0'	0.0'	0.0'	0.0'	0.0'
VOCs						
Acetone		0.099	0.017 *UJ*	< 0.017	0.017 *UJ*	0.017 *UJ*
Chloroform		< 0.00087	< 0.00087	< 0.00087	< 0.00087	< 0.00087
Toluene		0.0036	< 0.00078	< 0.00078	< 0.00078	< 0.00078
Trichlorofluoromethane		NA	0.0072	0.0068	< 0.0059	0.01
Xylenes, total		0.0064	< 0.0015	< 0.0015	< 0.0015	< 0.0015
SVOCs						
Acenaphthene		< 0.036	< 0.036	< 0.036	< 0.036	< 0.036
Anthracene		< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
Benzo(a)anthracene		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo(a)pyrene		< 0.25	0.25 *UJ*	0.25 *UJ*	< 0.25	< 0.25
Benzo(b)fluoranthene		< 0.21	0.21 *UJ*	0.21 *UJ*	< 0.21	< 0.21
Benzo(g,h,i)perylene		< 0.25	0.25 *UJ*	0.25 *UJ*	0.25 *UJ*	0.25 *UJ*
Benzo(k)fluoranthene		< 0.066	0.066 *UJ*	0.066 *UJ*	< 0.066	< 0.066
Chrysene		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Dibenzo(a,h)anthracene		0.21 *UJ*	0.21 *UJ*	0.21 *UJ*	0.21 *UJ*	0.21 *UJ*
Fluoranthene		< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
Indeno(1,2,3-cd)pyrene		0.29 *UJ*	0.29 *UJ*	0.29 *UJ*	0.29 *UJ*	0.29 *UJ*
Methylnaphthalene, 2-		< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Phenanthrene		< 0.033	< 0.033	< 0.033	0.053	0.052
Pyrene		< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Table 5-16. Detection Summary of Organic Consituents in Beach Area Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2SB09D	C-0300	C-0690	C-0692	OD-1
	RI PHASE	I	I	I	I	I
CONSTITUENT	DEPTH:	4.0'	0.0'	0.0'	0.0'	0.0'
Pesticides/Herbicides						
Chlordane, total		NA	NA	NA	NA	0.118 *J*
DDD, p,p'-		< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R	0.438
DDE, p,p'-		< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R	0.035 *J*
DDT, p,p'-		< 0.31 R	< 0.31 R	< 0.31 R	< 0.31 R	0.098 *J*
Hexachlorocyclohexane, gamma- (Lindane)		< 0.27 R	< 0.27 R	< 0.27 R	< 0.27 R	0.0199 *J*
Explosive						
Dinitrobenzene, 1,3-		< 0.496	< 0.496	< 0.496	< 0.496	NA
Other						
Organic Carbon, total		NA	NA	NA	NA	NA

Table 5-16. Detection Summary of Organic Consituents in Beach Area Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	FTRSB01		FTRSB02		TRSD01	TRSD02	JRBSD06
	RI PHASE:	II		II		II	II	III
CONSTITUENT	DEPTH:	0.5'	5.0'	0.5'	5.0'	0.0'	0.0'	0.0'
VOCs								
Acetone		NA	NA	NA	NA	NA	NA	NA
Chloroform		NA	NA	NA	NA	NA	NA	NA
Toluene		NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane		NA	NA	NA	NA	NA	NA	NA
Xylenes, total		NA	NA	NA	NA	NA	NA	NA
SVOCs								
Acenaphthene		0.239 k	0.222 k	< 0.133 k	< 0.133 k	< 0.133	< 0.133	< 0.14
Anthracene		< 0.0067	< 0.0067 k	< 0.0067	0.0256 k	< 0.133	< 0.133	< 0.14
Benzo(a)anthracene		0.00611 k	0.00181 k	0.00205 k	0.037 k	0.00188	0.00287	< 0.14
Benzo(a)pyrene		0.00721 k	0.00295 k	0.00295 k	0.032 k	0.00276	0.00172	< 0.14
Benzo(b)fluoranthene		0.00802 k	0.0041 k	0.00451 k	0.036 k	0.00356	0.00271	< 0.14
Benzo(g,h,i)perylene		0.00931 k	< 0.0067 k	< 0.0067 k	0.0435 k	< 0.0067	< 0.0067	< 0.16
Benzo(k)fluoranthene		0.00414 k	0.00122 k	0.00213 k	0.019 k	< 0.066	0.00105	< 0.14
Chrysene		< 0.0067 k	< 0.0067 k	< 0.0067 k	0.00736 k	< 0.12	0.0136	< 0.14
Dibenzo(a,h)anthracene		< 0.0033 k	< 0.0033 k	< 0.0033 k	0.00564 k	< 0.0033	< 0.133	< 0.14
Fluoranthene		0.0165 k	0.0067 k	0.00686 k	0.087 k	0.00473	0.00894	< 0.14
Indeno(1,2,3-cd)pyrene		0.0046 k	< 0.0033 k	< 0.0033 k	0.0253 k	0.00392	< 0.0033	< 0.16
Methylnaphthalene, 2-		0.143 k	0.151 k	< 0.133 k	< 0.133 k	< 0.133	< 0.133	NA
Phenanthrene		< 0.033	< 0.033 k	< 0.033	0.0981 k	< 0.033	< 0.033	< 0.14
Pyrene		0.0276 k	0.00715 k	0.0136 k	0.213 k	0.00858	0.00845	< 0.14

Table 5-16. Detection Summary of Organic Consituents in Beach Area Sediment Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	FTRSB01		FTRSB02		TRSD01	TRSD02	JRBSD06
	RI PHASE:	II		II		II	II	III
CONSTITUENT	DEPTH:	0.5'	5.0'	0.5'	5.0'	0.0'	0.0'	0.0'
Pesticides/Herbicides								
Chlordane, total		NA	NA	NA	NA	NA	NA	< 0.02 io
DDD, p,p'-		NA	NA	NA	NA	NA	NA	0.00966 Cio
DDE, p,p'-		NA	NA	NA	NA	NA	NA	< 0.003 io
DDT, p,p'-		NA	NA	NA	NA	NA	NA	< 0.003 io
Hexachlorocyclohexane, gamma- (Lindane)		NA	NA	NA	NA	NA	NA	< 0.003 io
Explosive								
Dinitrobenzene, 1,3-		NA	< 0.25	NA	< 0.25	< 0.25	0.297	< 0.25
Other								
Organic Carbon, total		NA	NA	NA	NA	NA	NA	19800

Note: i = Low spike recovery is high (IRDMIS Qualifier)

k = Missed holding time for extraction and preparation (IRDMIS Qualifier)

o = Low spike recoveries excessively different (IRDMIS Qualifier)

C = Analysis was confirmed (IRDMIS Flag)

R = Non target compound analyzed for but not detected (GC/MS method) (IRDMIS Flag)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifer)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

VOCs = Volatile organic compounds

SVOCs = Semi-volatile organic compounds

NA = Not analyzed

mg/kg = Milligrams per kilogram

QST, 1998

Table 5-17. Detection Summary of Constituents in Beach Area Surface Water Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	C-0300	C-0690	C-0692	OD-1
	RI PHASE:	I	I	I	I
CONSTITUENT	DATE:	5/1/91	5/1/91	5/15/91	5/1/91
Metals					
Barium		0.0244	0.0377	0.042	0.0372
Calcium		130	88	110	99
Iron		< 0.0388	0.0966	< 0.0388	< 0.0388
Lead		< 0.00126	0.00304	< 0.00126	0.00141
Magnesium		53	46	47	52
Manganese		0.19	0.0668	0.283	0.13
Potassium		2.66	3.05	4.04	2.63
Sodium		16.1	50.9	47.8	30
SLPs					
Chloride		19.1	120	99	71
Hardness		748	444	530	450
Nitrogen, NO2+NO3		0.149	0.0859	0.78	< 0.01
Solids, total dissolved (TDS)		836	669	686	656
Sulfate		269	130	88.9	139
VOC					
Chloroform		< 0.0005	< 0.0005	0.0016	< 0.0005
Other					
Organic carbon, total (TOC)		1.12	6.63	9.16	5.00

Note: mg/L = Milligrams per liter
VOC = Volatile organic compound
SLPs = Standard landfill parameters
QST, 1998

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW01	LF2MW01	LF2MW01	LF2MW01	LF2MW02	LF2MW02
	RI PHASE:	II	II	II	II	II	II
	ROUND:	I	I	II	II	I	I
CONSTITUENT	DATE:	12/15/95	2/15/96	4/18/96	5/3/96	12/4/95	2/14/96
Metals							
Aluminum		4.69	NA	61.3	NA	14.5	NA
Antimony		< 0.05	NA	< 0.05	NA	< 0.05	NA
Arsenic		< 0.0025	NA	0.0244	NA	0.0085 *J*	NA
Barium		0.0552	NA	0.38	NA	0.314	NA
Beryllium		< 0.005	NA	< 0.005	NA	0.005 *U*	NA
Boron		NA	NA	0.832	NA	0.154	NA
Calcium		49.7	NA	254	NA	217	NA
Chromium, total		< 0.01	NA	0.0971	NA	0.0185	NA
Cobalt		< 0.02	NA	0.0552	NA	0.02 *U*	NA
Copper		0.00524	NA	0.0793	NA	0.0159	NA
Cyanide, total		< 0.0025	NA	NA	< 0.0025	0.0025 *U*	NA
Iron		4.96 i	NA	82.6	NA	16.5	NA
Lead		0.0027	NA	0.0502	NA	0.0079 *J*	NA
Magnesium		26.5	NA	134	NA	128	NA
Manganese		0.118	NA	2.14	NA	1.02	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW01	LF2MW01	LF2MW01	LF2MW01	LF2MW02	LF2MW02
	RI PHASE:	II	II	II	II	II	II
	ROUND:	I	I	II	II	I	I
CONSTITUENT	DATE:	12/15/95	2/15/96	4/18/96	5/3/96	12/4/95	2/14/96
Metals							
Nickel		< 0.015	NA	0.101	NA	0.0194	NA
Potassium		6.82	NA	23.6	NA	10	NA
Selenium		< 0.0025	NA	< 0.0025	NA	0.0025 *UJ*	NA
Sodium		91.2 i	NA	89.1	NA	820	NA
Thallium		< 0.0025	NA	< 0.0025	NA	0.0025 *UJ*	NA
Vanadium		< 0.01	NA	0.104	NA	0.0278	NA
Zinc		< 0.02	NA	0.172	NA	0.0333	NA
SLPs							
Alkalinity		NA	108	NA	96	NA	744
Chloride		NA	6.2	NA	6.4	NA	1100
Fluoride		NA	0.65	NA	0.71	NA	< 0.5
Chemical oxygen demand		NA	5.98	NA	< 5	NA	95.9
Hardness		NA	242	NA	236	NA	860
Nitrogen, NO2+NO3		NA	1.6	NA	1.8	NA	< 0.02
Solids, total dissolved (TDS)		NA	573	NA	531	NA	2810
Sulfate		NA	300	NA	280	NA	83

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW02	LF2MW02 Dup	LF2MW04D	LF2MW04D	LF2MW04D
	RI PHASE:	II	II	II	II	II
	ROUND:	II	II	I	I	I
CONSTITUENT	DATE:	4/19/96	4/19/96	11/30/95	12/12/95	2/12/96
Metals						
Aluminum		1.78	2.19 D	5.33	NA	NA
Antimony		< 0.05	< 0.05 D	< 0.05	NA	NA
Arsenic		0.0026	< 0.0025 D	< 0.0025	NA	NA
Barium		0.161	0.179 D	0.256	NA	NA
Beryllium		< 0.005	< 0.005 D	< 0.005	NA	NA
Boron		0.11	0.101 D	0.884	NA	NA
Calcium		153	163 D	34.3	NA	NA
Chromium, total		< 0.01	< 0.01 D	0.0103	NA	NA
Cobalt		< 0.02	< 0.02 D	< 0.02	NA	NA
Copper		< 0.005	0.00643 D	0.00927	NA	NA
Cyanide, total		< 0.0025	< 0.0025 D	NA	< 0.0025	NA
Iron		3.61	4.14 D	5.18	NA	NA
Lead		0.0023	0.0021 D	0.0026	NA	NA
Magnesium		98.3	105 D	12.5	NA	NA
Manganese		0.642	0 .725 D	0.444	NA	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW02	LF2MW02 Dup	LF2MW04D	LF2MW04D	LF2MW04D
	RI PHASE:	II	II	II	II	II
	ROUND:	II	II	I	I	I
CONSTITUENT	DATE:	4/19/96	4/19/96	11/30/95	12/12/95	2/12/96
Metals						
Nickel		< 0.015	< 0.015 D	< 0.015	NA	NA
Potassium		2.77	3.38 D	3.8	NA	NA
Selenium		< 0.0025	< 0.0025 D	< 0.0025	NA	NA
Sodium		600	680 D	67.8 i	NA	NA
Thallium		< 0.0025	< 0.0025 D	< 0.0025	NA	NA
Vanadium		< 0.01	< 0.01 D	0.0101	NA	NA
Zinc		< 0.02	< 0.02 D	0.0366	NA	NA
SLPs						
Alkalinity		375	688 D	NA	NA	120
Chloride		1100	1100 D	NA	NA	90
Fluoride		< 0.5	< 0.5 D	NA	NA	1
Chemical oxygen demand		18.7	15 D	NA	NA	15.8
Hardness		960	908 D	NA	NA	92.4
Nitrogen, NO2+NO3		< 0.02	< 0.02 D	NA	NA	0.191
Solids, total dissolved (TDS)		2630	2520 D	NA	NA	304
Sulfate		110	110 D	NA	NA	45

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW04D	LF2MW04D	LF2MW04S	LF2MW04S	LF2MW04S
	RI PHASE:	II	II	II	II	II
	ROUND:	II	II	I	I	II
	DATE:	4/18/96	5/3/96	11/29/95	2/12/96	4/18/96
Metals						
Aluminum		71.9	NA	11.6	NA	0.585
Antimony		< 0.05	NA	0.05 *U*	NA	< 0.05
Arsenic		0.0327	NA	0.0101 *J*	NA	< 0.0025
Barium		0.646	NA	0.103	NA	< 0.025
Beryllium		< 0.005	NA	0.005 *U*	NA	< 0.005
Boron		0.837	NA	0.152	NA	0.0873
Calcium		306	NA	247	NA	189
Chromium, total		0.125	NA	0.0152	NA	< 0.01
Cobalt		0.0893	NA	0.02 *U*	NA	< 0.02
Copper		0.157	NA	0.035	NA	0.026
Cyanide, total		NA	< 0.0025	0.0025 *U*	NA	< 0.0025
Iron		111	NA	19.6	NA	1.27
Lead		0.0787	NA	0.0252 *J*	NA	0.0025
Magnesium		167	NA	93.7	NA	68.9
Manganese		4.05	NA	0.712	NA	0.205

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW04D	LF2MW04D	LF2MW04S	LF2MW04S	LF2MW04S
	RI PHASE:	II	II	II	II	II
	ROUND:	II	II	I	I	II
CONSTITUENT	DATE:	4/18/96	5/3/96	11/29/95	2/12/96	4/18/96
Metals						
Nickel		0.153	NA	0.0318	NA	0.035
Potassium		24.7	NA	6.71	NA	2.19
Selenium		< 0.0025	NA	0.0025 *UJ*	NA	< 0.0025
Sodium		62.7	NA	11.6	NA	11
Thallium		0.0039	NA	0.0025 *UJ*	NA	< 0.0025
Vanadium		0.141	NA	0.0248	NA	< 0.01
Zinc		0.32	NA	0.0972	NA	0.0286
SLPs						
Alkalinity		NA	120	NA	290	384
Chloride		NA	38	NA	12	12
Fluoride		NA	1.1	NA	< 0.5	< 0.5
Chemical oxygen demand		NA	18.7	NA	74.2	< 5
Hardness		NA	162	NA	1320	818
Nitrogen, NO2+NO3		NA	0.208	NA	0.0525	0.1
Solids, total dissolved (TDS)		NA	290	NA	1090	995
Sulfate		NA	33	NA	450	450

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW05D	LF2MW05D	LF2MW05D	LF2MW05D	LF2MW05D
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	I	II	II
CONSTITUENT	DATE:	11/30/95	1/22/96	2/12/96	4/18/96	5/9/96
Metals						
Aluminum		2.35	NA	NA	4.4	NA
Antimony		0.05 *U*	NA	NA	< 0.05	NA
Arsenic		0.0025 PJ *J*	NA	NA	0.0061	NA
Barium		0.157	NA	NA	0.138	NA
Beryllium		0.005 *U*	NA	NA	< 0.005	NA
Boron		0.809	NA	NA	0.762	NA
Calcium		53.3	NA	NA	61	NA
Chromium, total		0.01 *U*	NA	NA	0.0148	NA
Cobalt		0.02 *U*	NA	NA	< 0.02	NA
Copper		0.0157	NA	NA	0.0117	NA
Cyanide, total		NA	< 0.0025	NA	NA	< 0.0025
Iron		4.44	NA	NA	10.7	NA
Lead		0.0035 *J*	NA	NA	0.0089	NA
Magnesium		17.5	NA	NA	20.3	NA
Manganese		0.532	NA	NA	0.36	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW05D	LF2MW05D	LF2MW05D	LF2MW05D	LF2MW05D
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	I	II	II
CONSTITUENT	DATE:	11/30/95	1/22/96	2/12/96	4/18/96	5/9/96
Metals						
Nickel		0.015 *U*	NA	NA	< 0.015	NA
Potassium		2.98	NA	NA	3.59	NA
Selenium		0.0025 *UJ*	NA	NA	< 0.0025	NA
Sodium		92.8 i	NA	NA	91.7	NA
Thallium		0.0025 *UJ*	NA	NA	< 0.0025	NA
Vanadium		0.01 *U*	NA	NA	0.0138	NA
Zinc		0.02 *U*	NA	NA	< 0.02	NA
SLPs						
Alkalinity		NA	NA	148	NA	128
Chloride		NA	NA	32	NA	32
Fluoride		NA	NA	0.75	NA	0.78
Chemical oxygen demand		NA	NA	7.63	NA	7.5
Hardness		NA	NA	248	NA	224
Nitrogen, NO2+NO3		NA	NA	0.24	NA	0.559
Solids, total dissolved (TDS)		NA	NA	588	NA	519
Sulfate		NA	NA	250	NA	220

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW05S	LF2MW05S Dup	LF2MW05S	LF2MW05S	LF2MW06D
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	I	II	I
CONSTITUENT	DATE:	11/29/95	11/29/95	2/12/96	4/18/96	11/30/95
Metals						
Aluminum		11	8.12 D	NA	1.28	18.1
Antimony		0.05 *U*	< 0.05 D	NA	< 0.05	0.05 *U*
Arsenic		0.0244 *J*	0.0185 D	NA	0.003	0.0075 *J*
Barium		0.115	0.0854 D	NA	0.0302	0.338
Beryllium		0.005 *U*	< 0.005 D	NA	< 0.005	0.005 *U*
Boron		0.127	0.103 D	NA	0.0822	0.779
Calcium		337	305 D	NA	247	76.2
Chromium, total		0.023	0.0118 D	NA	< 0.01	0.0312
Cobalt		0.02 *U*	< 0.02 D	NA	< 0.02	0.02 *U*
Copper		0.0429	0.0288 D	NA	< 0.005	0.0295
Cyanide, total		0.0025 *U*	< 0.0025 D	NA	< 0.0025	NA
Iron		34.6	24.1 D	NA	3.7	21
Lead		0.0341 *J*	0.0252 D	NA	0.0063	0.0166 *J*
Magnesium		134	123 D	NA	109	33.4
Manganese		0.628	0.429 D	NA	0.0727	0.939

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW05S	LF2MW05S Dup	LF2MW05S	LF2MW05S	LF2MW06D
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	II	II	I
CONSTITUENT	DATE:	11/29/95	11/29/95	2/12/96	4/18/96	11/30/95
Metals						
Nickel		0.0259	0.0185 D	NA	< 0.015	0.0285
Potassium		6.56	4.67 D	NA	1.41	8.72
Selenium		0.0025 *UJ*	< 0.0025 D	NA	< 0.0025	0.0025 *UJ*
Sodium		8.64	7.97 D	NA	6.77	87.2 i
Thallium		0.0025 *UJ*	< 0.0025 D	NA	< 0.0025	0.0025 *UJ*
Vanadium		0.0262	0.0126 D	NA	< 0.01	0.04
Zinc		0.195	0.141 D	NA	0.0254	0.0586
SLPs						
Alkalinity		NA	NA	440	432	NA
Chloride		NA	NA	18	17	NA
Fluoride		NA	NA	< 0.5	< 0.05	NA
Chemical oxygen demand		NA	NA	124	< 5	NA
Hardness		NA	NA	178	1150	NA
Nitrogen, NO2+NO3		NA	NA	< 0.02	0.0372	NA
Solids, total dissolved (TDS)		NA	NA	1480	1360	NA
Sulfate		NA	NA	680	690	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW06D	LF2MW06D	LF2MW06D	LF2MW06D	LF2MW06S
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	II	II	I
	DATE:	1/22/96	2/12/96	4/18/96	6/11/96	2/13/96
Metals						
Aluminum		NA	NA	49.4	NA	24.5
Antimony		NA	NA	< 0.05	NA	< 0.05
Arsenic		NA	NA	0.0242	NA	0.0162
Barium		NA	NA	1.03	NA	0.095
Beryllium		NA	NA	< 0.005	NA	< 0.005
Boron		NA	NA	0.783	NA	0.0984
Calcium		NA	NA	205	NA	200
Chromium, total		NA	NA	0.0982	NA	0.0215
Cobalt		NA	NA	0.0709	NA	< 0.02
Copper		NA	NA	0.0929	NA	0.038
Cyanide, total		< 0.0025	NA	NA	< 0.0025	< 0.0025
Iron		NA	NA	81.6	NA	34.6
Lead		NA	NA	0.0684	NA	0.0375
Magnesium		NA	NA	101	NA	101
Manganese		NA	NA	3.68	NA	0.81

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW06D	LF2MW06D	LF2MW06D	LF2MW06D	LF2MW06S
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	II	II	I
CONSTITUENT	DATE:	1/22/96	2/12/96	4/18/96	6/11/96	2/13/96
Metals						
Nickel		NA	NA	0.0848	NA	0.0285
Potassium		NA	NA	17.8	NA	7.31
Selenium		NA	NA	< 0.0025	NA	< 0.0025
Sodium		NA	NA	93.5	NA	5.65
Thallium		NA	NA	0.0026	NA	< 0.0025
Vanadium		NA	NA	0.105	NA	0.0331
Zinc		NA	NA	0.179	NA	0.199
SLPs						
Alkalinity		NA	160	NA	44	280
Chloride		NA	23	NA	23	9.6
Fluoride		NA	0.67	NA	0.68	< 0.5
Chemical oxygen demand		NA	< 5	NA	7.5	12.5
Hardness		NA	520	NA	252	1010
Nitrogen, NO2+NO3		NA	0.637	NA	0.45	0.105
Solids, total dissolved (TDS)		NA	581	NA	612	997
Sulfate		NA	240	NA	240	420

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW06S Dup	LF2MW06S	LF2MW07D	LF2MW07D	LF2MW07S
	RI PHASE:	II	II	II	II	II
	ROUND:	I	II	I	I	I
CONSTITUENT	DATE:	2/13/96	4/18/96	12/1/95	2/13/96	12/1/95
Metals						
Aluminum		NA	0.727	24.5	NA	7.83
Antimony		NA	< 0.05	< 0.05	NA	< 0.05
Arsenic		NA	0.0029	0.01	NA	0.0061
Barium		NA	< 0.025	0.918	NA	0.0718
Beryllium		NA	< 0.005	< 0.005	NA	< 0.005
Boron		NA	0.0646	0.84	NA	0.0895
Calcium		NA	172	102	NA	146
Chromium, total		NA	< 0.01	0.0448	NA	0.0123
Cobalt		NA	< 0.02	0.0331	NA	< 0.02
Copper		NA	< 0.005	0.0273	NA	0.0173
Cyanide, total		NA	< 0.0025	< 0.0025	NA	< 0.0025
Iron		NA	1.19	32.6	NA	11.6
Lead		NA	0.0023	0.018	NA	0.0134
Magnesium		NA	78	47.7	NA	52.2
Manganese		NA	0.0261	3.06	NA	0.176

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW06S Dup	LF2MW06S	LF2MW07D	LF2MW07D	LF2MW07S
	RI PHASE:	II	II	II	II	II
	ROUND:	I	II	I	I	I
CONSTITUENT	DATE:	2/13/96	4/18/96	12/1/95	2/13/96	12/1/95
Metals						
Nickel		NA	< 0.015	0.0443	NA	0.0196
Potassium		NA	2.08	11	NA	5.23
Selenium		NA	< 0.0025	< 0.0025	NA	< 0.0025
Sodium		NA	4.96	63.7 i	NA	33.3 i
Thallium		NA	< 0.0025	< 0.0025	NA	< 0.0025
Vanadium		NA	< 0.01	0.0501	NA	0.0146
Zinc		NA	0.0232	0.145	NA	0.0584
SLPs						
Alkalinity		NA	330	NA	160	NA
Chloride		NA	7.7	NA	30	NA
Fluoride		NA	< 0.5	NA	0.87	NA
Chemical oxygen demand		12.5 D	< 5	NA	9.28	NA
Hardness		NA	844	NA	140	NA
Nitrogen, NO2+NO3		NA	0.152	NA	0.0592	NA
Solids, total dissolved (TDS)		NA	936	NA	299	NA
Sulfate		NA	450	NA	47	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW07S	LF2MW07S	LF2MW08D	LF2MW08D	LF2MW08D
	RI PHASE:	II	II	II	II	II
	ROUND:	I	II	I	I	I
	DATE:	2/13/96	4/19/96	11/30/95	12/3/95	2/28/96
Metals						
Aluminum		NA	4.44	5.7	NA	NA
Antimony		NA	< 0.05	0.05 *U*	NA	NA
Arsenic		NA	0.0075	0.0025 PJ *J*	NA	NA
Barium		NA	0.0862	0.0597	NA	NA
Beryllium		NA	< 0.005	0.005 *U*	NA	NA
Boron		NA	0.0696	0.845	NA	NA
Calcium		NA	162	32.1	NA	NA
Chromium, total		NA	< 0.01	0.0108	NA	NA
Cobalt		NA	< 0.02	0.02 *U*	NA	NA
Copper		NA	0.0171	0.0149	NA	NA
Cyanide, total		NA	< 0.0025	NA	0.0025 *U*	NA
Iron		NA	12.5	5.55	NA	NA
Lead		NA	0.0182	0.004 *J*	NA	NA
Magnesium		NA	57.7	12.1	NA	NA
Manganese		NA	0.212	0.117	NA	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW07S	LF2MW07S	LF2MW08D	LF2MW08D	LF2MW08D
	RI PHASE:	II	II	II	II	II
	ROUND:	I	II	I	I	I
CONSTITUENT	DATE:	2/13/96	4/19/96	11/30/95	12/3/95	2/28/96
Metals						
Nickel		NA	0.0224	< 0.015 *J*	NA	NA
Potassium		NA	5.19	3.53	NA	NA
Selenium		NA	< 0.0025	0.0025 *UJ*	NA	NA
Sodium		NA	157	56.8 i	NA	NA
Thallium		NA	< 0.0025	0.0025 *UJ*	NA	NA
Vanadium		NA	< 0.01	0.0108	NA	NA
Zinc		NA	0.055	0.0868	NA	NA
SLPs						
Alkalinity		256	300	NA	NA	300
Chloride		220	380	NA	NA	30
Fluoride		< 0.5	< 0.5	NA	NA	1.1
Chemical oxygen demand		53	7.5	NA	NA	76.2
Hardness		850	712	NA	NA	856
Nitrogen, NO2+NO3		0.852	2.8	NA	NA	0.112
Solids, total dissolved (TDS)		1130	989	NA	NA	474
Sulfate		290	150	NA	NA	25

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW08D	LF2MW08D	LF2MW08S	LF2MW08S	LF2MW08S
	RI PHASE:	II	II	II	II	II
	ROUND:	II	II	I	I	II
CONSTITUENT	DATE:	4/19/96	4/22/96	11/30/95	2/13/96	4/18/96
Metals						
Aluminum		81.6	NA	7.15	NA	0.517
Antimony		< 0.05	NA	< 0.05	NA	< 0.05
Arsenic		0.0238	NA	0.0045	NA	< 0.0025
Barium		0.435	NA	0.0527	NA	< 0.025
Beryllium		< 0.005	NA	< 0.005	NA	< 0.005
Boron		0 .949	NA	0.106	NA	0.0888
Calcium		324	NA	245	NA	193
Chromium, total		0.137	NA	< 0.01	NA	< 0.01
Cobalt		0.053	NA	< 0.02	NA	< 0.02
Copper		0.131	NA	0.0121	NA	< 0.005
Cyanide, total		NA	< 0.0025	< 0.0025	NA	< 0.0025
Iron		118	NA	9.91	NA	0.897
Lead		0.0668	NA	0.0043	NA	< 0.002
Magnesium		165	NA	101	NA	89
Manganese		1.99	NA	0.213	NA	0.026

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW08D	LF2MW08D	LF2MW08S	LF2MW08S	LF2MW08S
	RI PHASE:	II	II	II	II	II
	ROUND:	II	II	I	I	II
CONSTITUENT	DATE:	4/19/96	4/22/96	11/30/95	2/13/96	4/18/96
Metals						
Nickel		0.147	NA	< 0.015	NA	< 0.015
Potassium		25.4	NA	4.54	NA	1.57
Selenium		< 0.0025	NA	< 0.005	NA	< 0.0025
Sodium		66.9	NA	7.55	NA	6.36
Thallium		< 0.0025	NA	< 0.0025	NA	< 0.0025
Vanadium		0.155	NA	0.0129	NA	< 0.01
Zinc		0.292	NA	0.0346	NA	< 0.02
SLPs						
Alkalinity		NA	220	NA	412	450
Chloride		NA	29	NA	5.1	7.8
Fluoride		NA	0.99	NA	< 0.5	< 0.5
Chemical oxygen demand		NA	11.3	NA	< 5	< 5
Hardness		NA	88.4	NA	1200	1020
Nitrogen, NO2+NO3		NA	< 0.02	NA	< 0.02	0.115
Solids, total dissolved (TDS)		NA	314	NA	1400	1190
Sulfate		NA	30	NA	700	630

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW09D	LF2MW09D	LF2MW09D	LF2MW09D	LF2MW09S
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	II	II	I
CONSTITUENT	DATE:	11/30/95	2/12/96	4/19/96	5/3/96	11/30/95
Metals						
Aluminum		176	NA	48.1	NA	18.9
Antimony		0.053	NA	< 0.05	NA	0.05 *U*
Arsenic		0.0415	NA	0.0136	NA	0.01 *J*
Barium		0.771	NA	0.268	NA	0.102
Beryllium		0.0175	NA	< 0.005	NA	0.005 *U*
Boron		1.02	NA	0.837	NA	0.165
Calcium		588	NA	197	NA	238
Chromium, total		0.266	NA	0.0733	NA	0.0264
Cobalt		0.108	NA	0.0256	NA	0.02 *U*
Copper		0.238	NA	0.0694	NA	0.0358
Cyanide, total		< 0.0025	NA	NA	< 0.0025	0.0025 *U*
Iron		207	NA	63	NA	27.3
Lead		0.095	NA	0.0308	NA	0.0241 *J*
Magnesium		310	NA	100	NA	93.4
Manganese		3.73	NA	1.11	NA	0.53

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW09D	LF2MW09D	LF2MW09D	LF2MW09D	LF2MW09S
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	II	II	I
CONSTITUENT	DATE:	11/30/95	2/12/96	4/19/96	5/3/96	11/30/95
Metals						
Nickel		0.265	NA	0.0801	NA	0.0311
Potassium		57.5	NA	17.5	NA	10.1
Selenium		< 0.005	NA	< 0.0025	NA	0.005 *UJ*
Sodium		65.5	NA	74.4	NA	8.17
Thallium		0.0027	NA	< 0.0025	NA	0.0025 *U*
Vanadium		0.336	NA	0.0876	NA	0.0361
Zinc		0.454	NA	0.136	NA	0.079
SLPs						
Alkalinity		NA	156	NA	156	NA
Chloride		NA	26	NA	26	NA
Fluoride		NA	0.86	NA	0.85	NA
Chemical oxygen demand		NA	12.5	NA	15	NA
Hardness		NA	248	NA	148	NA
Nitrogen, NO2+NO3		NA	< 0.02	NA	0.0571	NA
Solids, total dissolved (TDS)		NA	416	NA	388	NA
Sulfate		NA	120	NA	110	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW09S	LF2MW09S	LF2MW10	LF2MW10	LF2MW10
	RI PHASE:	II	II	II	II	II
	ROUND:	I	II	I	I	II
CONSTITUENT	DATE:	2/13/96	4/18/96	12/1/95	2/12/96	4/18/96
Metals						
Aluminum		NA	0.545	1.73	NA	0.489
Antimony		NA	< 0.05	< 0.05	NA	< 0.05
Arsenic		NA	< 0.0025	< 0.0025	NA	< 0.0025
Barium		NA	< 0.025	0.0746	NA	0.061
Beryllium		NA	< 0.005	< 0.005	NA	< 0.005
Boron		NA	0.104	0.562	NA	0.594
Calcium		NA	148	73.4	NA	71.2
Chromium, total		NA	< 0.01	< 0.01	NA	< 0.01
Cobalt		NA	< 0.02	< 0.02	NA	< 0.02
Copper		NA	< 0.005	< 0.005	NA	< 0.005
Cyanide, total		NA	< 0.0025	< 0.0025	NA	NA
Iron		NA	1.23	2.83	NA	1.05
Lead		NA	0.003	0.0073	NA	0.0024
Magnesium		NA	48.9	38.4	NA	36.8
Manganese		NA	0.0603	0.111	NA	0.0431

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW09S	LF2MW09S	LF2MW10	LF2MW10	LF2MW10
	RI PHASE:	II	II	II	II	II
	ROUND:	I	II	I	I	II
CONSTITUENT	DATE:	2/13/96	4/18/96	12/1/95	2/12/96	4/18/96
Metals						
Nickel		NA	< 0.015	< 0.015	NA	< 0.015
Potassium		NA	3.29	3.97	NA	1.87
Selenium		NA	< 0.0025	< 0.0025	NA	< 0.0025
Sodium		NA	6.24	74.9 i	NA	61.3
Thallium		NA	< 0.0025	< 0.0025	NA	< 0.0025
Vanadium		NA	< 0.01	< 0.01	NA	< 0.01
Zinc		NA	< 0.02	< 0.02	NA	0.0275
SLPs						
Alkalinity		336	340	NA	224	NA
Chloride		5.7	9.6	NA	12	NA
Fluoride		< 0.5	< 0.5	NA	0.56	NA
Chemical oxygen demand		53	< 5	NA	< 5	NA
Hardness		825	632	NA	404	NA
Nitrogen, NO2+NO3		0.0794	0.609	NA	1.3	NA
Solids, total dissolved (TDS)		992	742	NA	613	NA
Sulfate		420	260	NA	230	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW10	LF2MW11	LF2MW11	LF2MW11 Dup	LF2MW11	LF2MW11
	RI PHASE:	II	II	II	II	II	I
	ROUND:	II	I	I	I	II	II
	DATE:	4/20/96	12/4/95	2/15/96	2/15/96	4/19/96	4/20/96
Metals							
Aluminum		NA	0.133	NA	NA	1.19	NA
Antimony		NA	0.05 *U*	NA	NA	< 0.05	NA
Arsenic		NA	0.0026 *J*	NA	NA	< 0.0025	NA
Barium		NA	0.061	NA	NA	0.0471	NA
Beryllium		NA	0.005 *U*	NA	NA	< 0.005	NA
Boron		NA	0.188	NA	NA	0.11	NA
Calcium		NA	117	NA	NA	120	NA
Chromium, total		NA	0.01 *U*	NA	NA	< 0.01	NA
Cobalt		NA	0.02 *U*	NA	NA	< 0.02	NA
Copper		NA	0.005 *U*	NA	NA	< 0.005	NA
Cyanide, total		< 0.0025	0.0025 *U*	NA	NA	NA	< 0.0025
Iron		NA	0.547	NA	NA	5.08	NA
Lead		NA	0.002 *UJ*	NA	NA	0.0047	NA
Magnesium		NA	44.6	NA	NA	49.6	NA
Manganese		NA	0.184	NA	NA	0.196	NA

Table 5-18. Detection Summary of Total Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW10	LF2MW11	LF2MW11	LF2MW11 Dup	LF2MW11	LF2MW11
	RI PHASE:	II	II	II	II	II	I
	ROUND:	II	I	I	I	II	II
CONSTITUENT	DATE:	4/20/96	12/4/95	2/15/96	2/15/96	4/19/96	4/20/96
Metals							
Nickel		NA	0.015 *U*	NA	NA	0.0152	NA
Potassium		NA	3.03	NA	NA	2.23	NA
Selenium		NA	0.0025 *UJ*	NA	NA	< 0.0025	NA
Sodium		NA	12.7	NA	NA	9.2	NA
Thallium		NA	0.0025 *UJ*	NA	NA	< 0.0025	NA
Vanadium		NA	0.01 *U*	NA	NA	< 0.01	NA
Zinc		NA	0.02 *U*	NA	NA	< 0.02	NA
SLPs							
Alkalinity		247	NA	392	380 D	NA	390
Chloride		11	NA	12	12 D	NA	8.2
Fluoride		0.53	NA	0.5 PJ	< 0.5 D	NA	< 0.5
Chemical oxygen demand		< 5	NA	< 5	< 5 D	NA	< 5
Hardness		432	NA	716	806 D	NA	508
Nitrogen, NO2+NO3		0.72	NA	0.143	0.138 D	NA	0.0409
Solids, total dissolved (TDS)		636	NA	670	678 D	NA	571
Sulfate		260	NA	170	160 D	NA	100

Note: i = Low spike recovery is high (IRDMIS Qualifier)
D = Duplicate analysis (IRDMIS Flag)
J = Value is estimated (IRDMIS Flag)
P = Results less than reporting level but greater than instrumental detection limit (IRDMIS Flag)
U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)
J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)
UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)
NA = Not analyzed
mg/L = Milligrams per liter
QST, 1998

Table 5-19. Detection Summary of Dissolved Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW01	LF2MW01	LF2MW02	LF2MW02	LF2MW02 Dup
	RI PHASE:	II	II	II	II	II
	ROUND:	I	II	I	II	II
CONSTITUENT	DATE:	12/15/95	4/18/96	12/4/95	4/19/96	4/19/96
Metals						
Aluminum		0.0506 F	0.0906 F	< 0.04 F	0.0415 F	0.0415 DF
Arsenic		< 0.0025 F	< 0.0025 F	< 0.0025 F	< 0.0025 F	< 0.0025 DF
Barium		< 0.25 F	0.0285 F	0.173 F	0.138 F	0.134 DF
Boron		NA	0.749 F	0.134 F	0.100 F	0.0865 DF
Calcium		39.1 F	39 F	142 F	145 F	140 DF
Copper		< 0.005 F	< 0.005 F	< 0.005 F	< 0.005 F	< 0.005 DF
Iron		< 0.045 Fi	0.0747 F	0.877 F	0.877 F	0.901 DF
Lead		0.0041 F	< 0.002 F	< 0.002 F	< 0.002 F	< 0.002 DF
Magnesium		20.9 F	22.2 F	86.4 F	93.8 F	90.3 DF
Manganese		< 0.005 F	< 0.005 F	0.698 F	0.573 F	0.566 DF
Potassium		5.51 F	4.64 F	3.2 F	2.86 F	2.42 DF
Sodium		94.8 Fi	88.5 F	770 F	600 F	580 DF
Zinc		< 0.02 F	< 0.02 F	< 0.02 F	< 0.02 F	< 0.02 DF

Table 5-19. Detection Summary of Dissolved Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW04D	LF2MW04D	LF2MW04S	LF2MW05D	LF2MW05D
	RI PHASE:	II	II	II	II	II
	ROUND:	I	II	II	I	II
CONSTITUENT	DATE:	11/30/95	4/18/96	4/18/96	11/30/95	4/18/96
Metals						
Aluminum		0.0528 F	0.118 F	< 0.04 F	< 0.04 F	< 0.04 F
Arsenic		< 0.0025 F	< 0.0025 F	< 0.0025 F	< 0.0025 F	< 0.0025 F
Barium		0.195 F	0.108 F	< 0.025 F	0.106 F	0.0377 F
Boron		0.806 F	0.771 F	0.0845 F	0.734 F	0.656 F
Calcium		25.3 F	22.3 F	187 F	45.4 F	49 F
Copper		< 0.005 F	0.00859 F	< 0.005 F	0.00622 F	< 0.005 F
Iron		0.0519 F	0.0847 F	< 0.045 F	0.0506 F	< 0.045 F
Lead		< 0.002 F	< 0.002 F	< 0.002 F	< 0.002 F	< 0.002 F
Magnesium		7.1 F	6.68 F	68.4 F	14.8 F	15 F
Manganese		0.255 F	0.181 F	0.063 F	0.391 F	0.0957 F
Potassium		1.32 F	1.3 F	2.57 F	2.28 F	2.08 F
Sodium		62.6 Fi	62.6 F	11 F	87.1 Fi	81 F
Zinc		< 0.02 F	< 0.02 F	< 0.02 F	< 0.02 F	< 0.02 F

Table 5-19. Detection Summary of Dissolved Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW05S	LF2MW05S Dup	LF2MW05S	LF2MW06D	LF2MW06D
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	II	I	II
CONSTITUENT	DATE:	11/29/95	11/29/95	4/18/96	11/30/95	4/18/96
Metals						
Aluminum		< 0.04 F	< 0.04 DF	0.0942 G	0.0648 F	< 0.040 F
Arsenic		< 0.0025 F	< 0.0025 DF	< 0.0025 F	< 0.0025 F	< 0.0025 F
Barium		< 0.025 F	< 0.025 DF	< 0.025 F	0.115 F	0.0501 F
Boron		0.104 F	0.0733 DF	0.0746 F	0.786 F	0.682 F
Calcium		268 F	270 DF	250 F	42.1 F	47.7 F
Copper		< 0.005 F	< 0.005 DF	< 0.005 F	< 0.005 F	< 0.005 F
Iron		< 0.045 F	< 0.045 DF	0.0985 F	0.0774 F	0.0579 F
Lead		0.0021 F	< 0.002 DF	< 0.002 F	< 0.002 F	0.002 FPJ
Magnesium		102 F	104 DF	109 F	14 F	14.6 F
Manganese		< 0.005 F	< 0.005 DF	< 0.005 F	0.244 F	0.0515 F
Potassium		1.61 F	1.7 DF	0.802 F	2.18 F	1.59 F
Sodium		7.33 F	7.63 DF	7.62 F	89.6 Fi	87.2 F
Zinc		< 0.02 F	< 0.02 DF	< 0.02 F	< 0.02 F	< 0.02 F

Table 5-19. Detection Summary of Dissolved Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW06S	LF2MW06S	LF2MW07D	LF2MW07S
	RI PHASE:	II	II	II	II
	ROUND:	I	II	I	I
CONSTITUENT	DATE:	2/13/96	4/18/96	12/1/95	12/1/95
Metals					
Aluminum		< 0.04 F	< 0.04 F	0.103 F	< 0.04 F
Arsenic		< 0.0025 F	< 0.0025 F	< 0.0025 F	< 0.025 F
Barium		< 0.025 F	< 0.025 F	0.649 F	0.0326 F
Boron		0.0609 F	0.0613 F	0.867 F	0.107 F
Calcium		162 F	176 F	27.8 F	120 F
Copper		< 0.005 F	< 0.005 F	< 0.005 F	< 0.005 F
Iron		0.123 F	< 0.045 F	0.0828 F	< 0.045 F
Lead		< 0.002 F	< 0.002 F	< 0.002 F	< 0.002 F
Magnesium		75.9 F	80.8 F	7.47 F	38.9 F
Manganese		0.00561 F	< 0.005 F	0.429 F	0.00701 F
Potassium		2.4 F	2.11 F	2.11 F	2.05 F
Sodium		5.57 F	5.58 F	67.7 Fi	27.2 Fi
Zinc		< 0.02 F	< 0.02 F	0.0249 F	0.0263 F

Table 5-19. Detection Summary of Dissolved Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW07S	LF2MW08D	LF2MW08D	LF2MW08S	LF2MW08S
	RI PHASE:	II	II	II	II	II
	ROUND:	II	I	II	I	II
CONSTITUENT	DATE:	4/19/96	11/30/95	4/19/96	11/30/95	4/18/96
Metals						
Aluminum		< 0.04 F	0.092 F *U*	0.119 F	< 0.04 F	< 0.04 F
Arsenic		< 0.0025 F	< 0.0025 F *J*	< 0.0025 F	< 0.0025 F	< 0.0025 F
Barium		0.0594 F	0.0329 F	0.033 F	< 0.025 F	< 0.025 F
Boron		0.0721 F	0.847 F	0.809 F	0.0974 F	0.0718 F
Calcium		126 F	20.5 F	25.1 F	215 F	206 F
Copper		< 0.005 F	0.005 F *U*	< 0.005 F	< 0.005 F	< 0.005 F
Iron		< 0.045 F	0.0671 F *U*	0.0567 F	< 0.045 F	< 0.045 F
Lead		< 0.002 F	0.002 F *UJ*	< 0.002 F	< 0.002 F	< 0.002 F
Magnesium		39.1 F	5.19 F	5.93 F	84.6 F	94.1 F
Manganese		0.00578 F	0.0307 F	0.0347 F	0.00839 F	< 0.005 F
Potassium		3.21 F	1.17 F	0.926 F	1.26 F	1.14 F
Sodium		155 F	58.2 Fi	60.6 F	6.39 F	6.87 F
Zinc		< 0.02 F	0.02 F *U*	< 0.02 F	< 0.02 F	< 0.02 F

Table 5-19. Detection Summary of Dissolved Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW09D	LF2MW09D	LF2MW09S	LF2MW09S
	RI PHASE:	II	II	II	II
	ROUND:	I	II	I	II
CONSTITUENT	DATE:	11/30/95	4/19/96	11/30/95	4/18/96
Metals					
Aluminum		0.141 F	0.0688 F	< 0.04 F	< 0.04 F
Arsenic		0.0025 FPJ	< 0.0025 F	< 0.0025 F	< 0.0025 F
Barium		0.0326 F	0.0382 F	< 0.025 F	< 0.025 F
Boron		0.749 F	0.743 F	0.0927 F	0.112 F
Calcium		21.9 F	32.4 F	138 F	139 F
Copper		< 0.005 F	< 0.005 F	< 0.005 F	< 0.005 F
Iron		0.119 F	< 0.045 F	0.0891 F	0.0695 F
Lead		< 0.002 F	0.0024 F	< 0.002 F	< 0.002 F
Magnesium		6.7 F	8.53 F	45.1 F	45 F
Manganese		0.0183 F	0.0401 F	0.0497 F	0.0414 F
Potassium		1.31 F	0.861 F	2.13 F	3.61 F
Sodium		65.2 F	68.3 F	6.82 F	6.09 F
Zinc		< 0.02 F	< 0.02 F	< 0.02 F	< 0.02 F

Table 5-19. Detection Summary of Dissolved Inorganic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW10	LF2MW10	LF2MW11	LF2MW11
	RI PHASE:	II	II	II	II
	ROUND:	I	II	I	II
CONSTITUENT	DATE:	11/30/95	4/18/96	12/4/95	4/19/96
Metals					
Aluminum		< 0.04 F	< 0.04 F	0.0432 F	< 0.04 F
Arsenic		< 0.0025 F	< 0.0025 F	< 0.0025 F	< 0.0025 F
Barium		0.0534 F	0.0467 F	0.054 F	0.042 F
Boron		0.541 F	0.612 F	0.156 F	0.109 F
Calcium		69.2 F	70.2 F	106 F	118 F
Copper		< 0.005 F	< 0.005 F	< 0.005 F	< 0.005 F
Iron		< 0.045 F	< 0.045 F	< 0.045 F	0.140 F
Lead		0.004 F	< 0.002 F	< 0.002 F	< 0.002 F
Magnesium		36.2 F	36.1 F	39.9 F	48.4 F
Manganese		0.0682 F	< 0.005 F	0.180 F	0.146 F
Potassium		3.58 F	1.86 F	3.68 F	2.19 F
Sodium		72.9 Fi	62.9 F	12 F	9.29 F
Zinc		< 0.02 F	< 0.02 F	< 0.02 F	< 0.02 F

Note: i = Low spike recovery is high (IRDMIS Qualifier)

D = Duplicate analysis (IRDMIS Flag)

F = Sample filtered prior to analysis (IRDMIS Flag)

J = Value is estimated (IRDMIS Flag)

P = Results less than reporting level but greater than instrumental detection limit (IRDMIS Flag)

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)

UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)

NA = Not analyzed

mg/L = Milligrams per liter

QST, 1998

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW01	LF2MW01	LF2MW01	LF2MW01
	RI PHASE:	II	II	II	II
	ROUND:	I	I	II	II
	DATE:	12/15/95	2/15/96	4/18/96	5/3/96
VOC					
Acetone		< 0.01	NA	< 0.01	NA
SVOCs					
Anthracene		0.000253	NA	NA	0.000301 rj
Benzo(a)anthracene		< 0.00002	NA	NA	< 0.00002
Benzo(a)pyrene		< 0.00001	NA	NA	< 0.00001
Benzo(g,h,i)perylene		< 0.0001	NA	NA	< 0.0001
Benzo(k)fluoranthene		< 0.00001	NA	NA	< 0.00001
Bis(2-ethylhexyl) phthalate		< 0.002	NA	NA	< 0.002
Diethyl phthalate		< 0.002	NA	NA	< 0.002
Fluoranthene		< 0.00002	NA	NA	< 0.00002
Indeno(1,2,3-cd)pyrene		< 0.00005	NA	NA	< 0.00005
Methylnaphthalene, 2-		< 0.002	NA	NA	< 0.002
Phenanthrene		< 0.0005	NA	NA	0.000762
Pyrene		< 0.0001	NA	NA	< 0.0001
Herbicides/Pesticides					
DDD, p,p'-		< 0.000005	NA	NA	NA
DDT, p,p'-		< 0.000007	NA	NA	NA
Endosulfan sulfate		< 0.000005	NA	NA	NA
Hexachlorocyclohexane, alpha-		< 0.000005	NA	NA	NA
Explosives					
Amino-2,6-dinitrotoluene, 4-		< 0.0001	NA	NA	NA
Dinitrotoluene, 2,4-		< 0.00006	NA	NA	< 0.002
Other					
Organic carbon, total		NA	2.17	NA	1.58

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW01	LF2MW02	LF2MW02	LF2MW02
	RI PHASE:	II	II	II	II
	ROUND:	II	I	I	II
CONSTITUENT	DATE:	6/11/96	12/4/95	2/13/96	4/19/96
VOCs					
Acetone		NA	0.01 *UJ*	NA	< 0.01
SVOCs					
Anthracene		NA	0.0001 *U*	0.000334	< 0.0001
Benzo(a)anthracene		NA	0.00002 *U*	< 0.00002	< 0.00002
Benzo(a)pyrene		NA	0.00001 *U*	< 0.00001	< 0.00001
Benzo(g,h,i)perylene		NA	0.0001 *U*	< 0.0001	< 0.0001
Benzo(k)fluoranthene		NA	0.00001 *U*	< 0.00001	< 0.00001
Bis(2-ethylhexyl) phthalate		NA	0.002 *U*	< 0.002	< 0.002
Diethyl phthalate		NA	0.002 *U*	< 0.002	< 0.002
Fluoranthene		NA	0.00002 *U*	0.0000274	< 0.00002
Indeno(1,2,3-cd)pyrene		NA	0.00005 *U*	< 0.00005	< 0.00005
Methylnaphthalene, 2-		NA	0.002 *U*	< 0.002	< 0.002
Phenanthrene		NA	0.0005 *U*	< 0.0005	< 0.0005
Pyrene		NA	0.0001 *U*	< 0.0001	< 0.0001
Herbicides/Pesticides					
DDD, p,p'-		< 0.000005	0.000005 *UJ*	< 0.000005	< 0.000005
DDT, p,p'-		< 0.000007	0.000007 *U*	< 0.000007	< 0.000007 po
Endosulfan sulfate		< 0.000005	0.000005 *U*	< 0.000005	0.000018 C
Hexachlorocyclohexane, alpha-		< 0.000005	0.0000058 *U*	< 0.000005	< 0.000005
Explosives					
Amino-2,6-dinitrotoluene, 4-		NA	0.0001 *U*	NA	NA
Dinitrotoluene, 2,4-		NA	0.00006 *U*	< 0.002	< 0.002
Other					
Organic carbon, total (TOC)		NA	4.19	NA	< 1

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW02 Dup	LF2MW04D	LF2MW04D	LF2MW04D
	RI PHASE:	II	II	II	II
	ROUND:	II	I	I	I
	DATE:	4/19/96	11/28/95	12/12/95	2/12/96
VOCs					
Acetone		< 0.01 D	< 0.01	NA	NA
SVOCs					
Anthracene		< 0.0001 D	NA	< 0.0001	NA
Benzo(a)anthracene		< 0.00002 D	NA	< 0.00002	NA
Benzo(a)pyrene		< 0.00001 D	NA	< 0.00001	NA
Benzo(g,h,i)perylene		< 0.0001 D	NA	< 0.0001	NA
Benzo(k)fluoranthene		< 0.00001 D	NA	< 0.00001	NA
Bis(2-ethylhexyl) phthalate		< 0.002 D	NA	0.006	NA
Diethyl phthalate		< 0.002 D	NA	< 0.002	NA
Fluoranthene		< 0.00002 D	NA	< 0.00002	NA
Indeno(1,2,3-cd)pyrene		< 0.00005 D	NA	< 0.00005	NA
Methylnaphthalene, 2-		< 0.002 D	NA	< 0.002	NA
Phenanthrene		< 0.0005 D	NA	< 0.0005	NA
Pyrene		< 0.0001 D	NA	< 0.0001	NA
Herbicides/Pesticides					
DDD, p,p'-		< 0.000005 D	NA	< 0.000005	NA
DDT, p,p'-		< 0.000007 Dpo	NA	< 0.000007	NA
Endosulfan sulfate		0.0000074 DC	NA	< 0.000005	NA
Hexachlorocyclohexane, alpha-		< 0.000005 D	NA	< 0.000005	NA
Explosives					
Amino-2,6-dinitrotoluene, 4-		< 0.0001 D	NA	NA	NA
Dinitrotoluene, 2,4-		< 0.00006 D	NA	< 0.002	NA
Other					
Organic carbon, total (TOC)		< 1D	NA	NA	5.1

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW04D	LF2MW04D	LF2MW04D	LF2MW04S
	RI PHASE:	II	II	II	II
	ROUND:	II	II	II	I
	DATE:	4/18/96	5/3/96	6/11/96	11/29/95
VOCs					
Acetone		< 0.01	NA	NA	0.01 *UJ*
SVOCs					
Anthracene		NA	< 0.0001 rj	NA	0.002 *U*
Benzo(a)anthracene		NA	< 0.00002	NA	0.002 *U*
Benzo(a)pyrene		NA	< 0.00001	NA	0.002 *U*
Benzo(g,h,i)perylene		NA	< 0.0001	NA	0.002 *UJ*
Benzo(k)fluoranthene		NA	< 0.00001	NA	0.002 *U*
Bis(2-ethylhexyl) phthalate		NA	< 0.002 r	NA	0.0027 *U*
Diethyl phthalate		NA	< 0.002 r	NA	0.002 *U*
Fluoranthene		NA	< 0.00002	NA	0.002 *U*
Indeno(1,2,3-cd)pyrene		NA	< 0.00005	NA	0.002 *U*
Methylnaphthalene, 2-		NA	< 0.002 r	NA	0.002 *U*
Phenanthrene		NA	< 0.0005	NA	0.002 *U*
Pyrene		NA	< 0.0001	NA	0.002 *U*
Herbicides/Pesticides					
DDD, p,p'-		NA	NA	< 0.000005	0.000005 *UJ*
DDT, p,p'-		NA	NA	< 0.000007	0.000007 *U*
Endosulfan sulfate		NA	NA	< 0.000005	0.000005 *U*
Hexachlorocyclohexane, alpha-		NA	NA	< 0.000005	0.000005 *U*
Explosives					
Amino-2,6-dinitrotoluene, 4-		NA	NA	NA	0.0001 *U*
Dinitrotoluene, 2,4-		NA	< 0.002 r	NA	0.00006 *U*
Other					
Organic carbon, total (TOC)		NA	7.4	NA	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW04S	LF2MW04S	LF2MW04S	LF2MW05D
	RI PHASE:	II	II	II	II
	ROUND:	I	I	II	I
CONSTITUENT	DATE:	1/23/96	2/12/96	4/18/96	11/28/95
VOCs					
Acetone		NA	NA	< 0.01	< 0.01
SVOCs					
Anthracene		0.00046	NA	< 0.0001	NA
Benzo(a)anthracene		0.0000303	NA	< 0.00002	NA
Benzo(a)pyrene		0.00005	NA	0.0000154	NA
Benzo(g,h,i)perylene		< 0.0001	NA	< 0.0001	NA
Benzo(k)fluoranthene		0.0000195	NA	< 0.00001	NA
Bis(2-ethylhexyl) phthalate		NA	NA	< 0.002	NA
Diethyl phthalate		NA	NA	< 0.002	NA
Fluoranthene		0.0000441	NA	< 0.00002	NA
Indeno(1,2,3-cd)pyrene		0.0000542	NA	< 0.00005	NA
Methylnaphthalene, 2-		< 0.002	NA	< 0.002	NA
Phenanthrene		< 0.0005	NA	< 0.0005	NA
Pyrene		0.000121	NA	< 0.0001	NA
Herbicides/Pesticides					
DDD, p,p'-		NA	NA	< 0.000005	NA
DDT, p,p'-		NA	NA	< 0.000007	NA
Endosulfan sulfate		NA	NA	0.000023 C	NA
Hexachlorocyclohexane, alpha-		NA	NA	< 0.000005	NA
Explosives					
Amino-2,6-dinitrotoluene, 4-		NA	NA	< 0.0001	NA
Dinitrotoluene, 2,4-		NA	NA	< 0.00006	NA
Other					
Organic carbon, total (TOC)		NA	1.14	< 1	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW05D	LF2MW05D	LF2MW05D	LF2MW05D
	RI PHASE:	II	II	II	II
	ROUND:	I	I	II	II
	DATE:	1/22/96	2/12/96	4/18/96	5/9/96
VOCs					
Acetone		NA	NA	< 0.01	NA
SVOCs					
Anthracene		0.0001 *U*	NA	NA	< 0.0001
Benzo(a)anthracene		0.00002 *U*	NA	NA	< 0.00002
Benzo(a)pyrene		0.00001 *U*	NA	NA	< 0.00001
Benzo(g,h,i)perylene		0.0001 *U*	NA	NA	< 0.0001
Benzo(k)fluoranthene		0.00001 *U*	NA	NA	< 0.00001
Bis(2-ethylhexyl) phthalate		0.002 *U*	NA	NA	0.0021
Diethyl phthalate		0.002 *U*	NA	NA	< 0.002
Fluoranthene		0.00002 *U*	NA	NA	< 0.00002
Indeno(1,2,3-cd)pyrene		0.00005 *U*	NA	NA	< 0.00005
Methylnaphthalene, 2-		0.002 *U*	NA	NA	< 0.002
Phenanthrene		0.0005 *U*	NA	NA	< 0.0005
Pyrene		0.0001 *J*	NA	NA	< 0.0001
Herbicides/Pesticides					
DDD, p,p'-		0.000005 *UJ*	NA	NA	< 0.000005
DDT, p,p'-		0.000007 *UJ*	NA	NA	< 0.000007
Endosulfan sulfate		0.000056 C	NA	NA	< 0.000005
Hexachlorocyclohexane, alpha-		0.000005 *U*	NA	NA	0.0000053
Explosives					
Amino-2,6-dinitrotoluene, 4-		0.0001 *U*	NA	NA	NA
Dinitrotoluene, 2,4-		0.00006 *U*	NA	NA	< 0.002
Other					
Organic carbon, total (TOC)		NA	1.92	NA	3.65

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW05S	LF2MW05S Dup	LF2MW05S	LF2MW05S Dup
	RI PHASE:	II	II	II	II
	ROUND:	I	I	I	I
	DATE:	11/29/95	11/29/95	1/23/96	1/23/96
VOCs					
Acetone		< 0.01	0.01 D *UJ*	NA	NA
SVOCs					
Anthracene		< 0.002	0.002 D *U*	0.000309 *J*	0.00101 D
Benzo(a)anthracene		< 0.002	0.002 D *U*	0.00002 *UJ*	0.0000422 D
Benzo(a)pyrene		< 0.002	0.002 D *U*	0.0000319 *J*	0.0000764 D
Benzo(g,h,i)perylene		< 0.002	0.002 D *UJ*	0.0001 *UJ*	0.00017 D
Benzo(k)fluoranthene		< 0.002	0.002 D *U*	0.0000117 *J*	0.0000308 D
Bis(2-ethylhexyl) phthalate		< 0.002	0.002 D *U*	NA	NA
Diethyl phthalate		< 0.002	0.002 D *U*	NA	NA
Fluoranthene		< 0.002	0.002 D *U*	0.0000284 *J*	0.000073 D
Indeno(1,2,3-cd)pyrene		< 0.002	0.002 D *U*	0.00005 *UJ*	0.000164 D
Methylnaphthalene, 2-		< 0.002	0.002 D *U*	0.002 *UJ*	< 0.002 D
Phenanthrene		< 0.002	0.002 D *U*	0.0005 *UJ*	< 0.0005 D
Pyrene		< 0.002	0.002 D *U*	0.0001 *UJ*	0.000215 D
Herbicides/Pesticides					
DDD, p,p'-		< 0.000005	0.000005 D *UJ*	NA	NA
DDT, p,p'-		< 0.000007	0.000007 D *U*	NA	NA
Endosulfan sulfate		< 0.000005	0.000005 D *U*	NA	NA
Hexachlorocyclohexane, alpha-		< 0.000005	0.000005 D *U*	NA	NA
Explosives					
Amino-2,6-dinitrotoluene, 4-		< 0.0001	0.0001 D *U*	NA	NA
Dinitrotoluene, 2,4-		< 0.00006	0.00006 D *U*	NA	NA
Other					
Organic carbon, total (TOC)		NA	NA	NA	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW05S	LF2MW05S	LF2MW06D	LF2MW06D
	RI PHASE:	II	II	II	II
	ROUND:	I	II	I	I
CONSTITUENT	DATE:	2/12/96	4/18/96	1/22/96	11/28/95
VOCs					
Acetone		NA	< 0.01	NA	< 0.01
SVOCs					
Anthracene		NA	< 0.0001	0.0001 *UJ*	NA
Benzo(a)anthracene		NA	0.0000222	0.00002 *UJ*	NA
Benzo(a)pyrene		NA	0.0000412	0.00001 *UJ*	NA
Benzo(g,h,i)perylene		NA	< 0.0001	0.0001 *UJ*	NA
Benzo(k)fluoranthene		NA	0.0000174	0.00001 *UJ*	NA
Bis(2-ethylhexyl) phthalate		NA	< 0.002	0.002 PJ *U*	NA
Diethyl phthalate		NA	< 0.002	0.002 *U*	NA
Fluoranthene		NA	0.0000502	0.00002 *U*	NA
Indeno(1,2,3-cd)pyrene		NA	0.0000613	0.00005 *U*	NA
Methylnaphthalene, 2-		NA	< 0.002	0.002 *U*	NA
Phenanthrene		NA	< 0.0005	0.0005 *U*	NA
Pyrene		NA	0.000108	0.0001 *U*	NA
Herbicides/Pesticides					
DDD, p,p'-		NA	< 0.000005	0.000005 *UJ*	NA
DDT, p,p'-		NA	< 0.000007	0.000007 *UJ*	NA
Endosulfan sulfate		NA	0.000015 C	0.000029 C	NA
Hexachlorocyclohexane, alpha-		NA	< 0.000005	0.000005 *U*	NA
Explosives					
Amino-2,6-dinitrotoluene, 4-		NA	< 0.0001	0.0001 *U*	NA
Dinitrotoluene, 2,4-		NA	< 0.00006	0.00006 *U*	NA
Other					
Organic carbon, total (TOC)		1.37	< 1	NA	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW06D	LF2MW06D	LF2MW06D	LF2MW06S
	RI PHASE:	II	II	II	II
	ROUND:	I	II	II	I
	DATE:	2/12/96	4/18/96	6/11/96	2/13/96
VOCs					
Acetone		NA	< 0.01	NA	< 0.01
SVOCs					
Anthracene		NA	NA	< 0.0001	0.000435
Benzo(a)anthracene		NA	NA	< 0.00002	< 0.00002
Benzo(a)pyrene		NA	NA	< 0.00001	0.0000192
Benzo(g,h,i)perylene		NA	NA	< 0.0001	< 0.0001
Benzo(k)fluoranthene		NA	NA	< 0.00001	< 0.00001
Bis(2-ethylhexyl) phthalate		NA	NA	0.0022	0.0081
Diethyl phthalate		NA	NA	< 0.002	< 0.002
Fluoranthene		NA	NA	< 0.00002	0.0000434
Indeno(1,2,3-cd)pyrene		NA	NA	< 0.00005	< 0.00005
Methylnaphthalene, 2-		NA	NA	< 0.002	< 0.002
Phenanthrene		NA	NA	< 0.0005	< 0.0005
Pyrene		NA	NA	< 0.0001	< 0.0001
Herbicides/Pesticides					
DDD, p,p'-		NA	NA	< 0.000005	0.000011 C
DDT, p,p'-		NA	NA	< 0.000007	< 0.000007
Endosulfan sulfate		NA	NA	< 0.000005	< 0.000005
Hexachlorocyclohexane, alpha-		NA	NA	< 0.000005	< 0.000005
Explosives					
Amino-2,6-dinitrotoluene, 4-		NA	NA	< 0.0001	< 0.0001
Dinitrotoluene, 2,4-		NA	NA	< 0.00006	< 0.00006
Other					
Organic carbon, total (TOC)		1.36	NA	1.58	1.15

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW06S	LF2MW07D	LF2MW07D	LF2MW07D
	RI PHASE:	II	II	II	II
	ROUND:	II	I	I	I
	DATE:	4/18/96	12/1/95	1/24/96	2/13/96
VOCs					
Acetone		< 0.01	< 0.01	NA	NA
SVOCs					
Anthracene		< 0.0001	< 0.0001	NA	NA
Benzo(a)anthracene		< 0.00002	< 0.00002	NA	NA
Benzo(a)pyrene		< 0.00001	< 0.00001	NA	NA
Benzo(g,h,i)perylene		< 0.0001	< 0.0001	NA	NA
Benzo(k)fluoranthene		< 0.00001	< 0.00001	NA	NA
Bis(2-ethylhexyl) phthalate		< 0.002	< 0.002	NA	NA
Diethyl phthalate		< 0.002	< 0.002	NA	NA
Fluoranthene		< 0.00002	< 0.00002	NA	NA
Indeno(1,2,3-cd)pyrene		< 0.00005	0.000139	NA	NA
Methylnaphthalene, 2-		< 0.002	0.00304	NA	NA
Phenanthrene		< 0.0005	< 0.0005	NA	NA
Pyrene		< 0.0001	< 0.0001	NA	NA
Herbicides/Pesticides					
DDD, p,p'-		< 0.000005	< 0.000005 1	< 0.000005	NA
DDT, p,p'-		< 0.000007	< 0.000007 1	< 0.000007	NA
Endosulfan sulfate		< 0.000005	< 0.000005 1	< 0.000005	NA
Hexachlorocyclohexane, alpha-		< 0.000005	< 0.000005 1	< 0.000005	NA
Explosives					
Amino-2,6-dinitrotoluene, 4-		< 0.0001	< 0.0001	NA	NA
Dinitrotoluene, 2,4-		< 0.00006	< 0.00006	NA	NA
Other					
Organic carbon, total (TOC)		< 1	NA	NA	3.11

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW07S	LF2MW07S	LF2MW07S	LF2MW08D
	RI PHASE:	II	II	II	II
	ROUND:	I	I	II	I
	DATE:	12/1/95	1/24/96	4/19/96	11/28/95
VOCs					
Acetone		< 0.01	NA	< 0.01	0.032
SVOCs					
Anthracene		< 0.0001	NA	< 0.0001	NA
Benzo(a)anthracene		< 0.00002	NA	< 0.00002	NA
Benzo(a)pyrene		0.0000137	NA	0.0000126	NA
Benzo(g,h,i)perylene		< 0.0001	NA	< 0.0001	NA
Benzo(k)fluoranthene		< 0.00001	NA	< 0.00001	NA
Bis(2-ethylhexyl) phthalate		< 0.002	NA	< 0.002	NA
Diethyl phthalate		< 0.002	NA	< 0.002	NA
Fluoranthene		0.0000414	NA	0.0000381	NA
Indeno(1,2,3-cd)pyrene		< 0.00005	NA	< 0.00005	NA
Methylnaphthalene, 2-		< 0.002	NA	< 0.002	NA
Phenanthrene		< 0.0005	NA	< 0.0005	NA
Pyrene		< 0.0001	NA	< 0.0001	NA
Herbicides/Pesticides					
DDD, p,p'-		0.0000097 C1	< 0.000005	0.000024 C	NA
DDT, p,p'-		< 0.000007 1	< 0.000007	0.000025 Cpo	NA
Endosulfan sulfate		< 0.000005 1	< 0.000005	< 0.000005	NA
Hexachlorocyclohexane, alpha-		< 0.000005 1	< 0.000005	< 0.000005	NA
Explosives					
Amino-2,6-dinitrotoluene, 4-		< 0.0001	NA	< 0.0001	NA
Dinitrotoluene, 2,4-		< 0.00006	NA	< 0.00006	NA
Other					
Organic carbon, total (TOC)		NA	NA	< 1	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW08D	LF2MW08D	LF2MW08D	LF2MW08S
	RI PHASE:	II	II	II	II
	ROUND:	I	II	II	I
	DATE:	12/3/95	4/19/96	4/22/96	11/30/95
VOCs					
Acetone		NA	< 0.01	NA	< 0.01
SVOCs					
Anthracene		0.0001 *U*	NA	< 0.0001	< 0.002
Benzo(a)anthracene		0.00002 *UJ*	NA	< 0.00002	< 0.002
Benzo(a)pyrene		0.00001 *U*	NA	< 0.00001	< 0.002
Benzo(g,h,i)perylene		0.0001 *U*	NA	< 0.0001	< 0.002
Benzo(k)fluoranthene		0.00001 *U*	NA	< 0.00001	< 0.002
Bis(2-ethylhexyl) phthalate		0.002 *U*	NA	< 0.002	< 0.002
Diethyl phthalate		0.002 *U*	NA	< 0.002	< 0.002
Fluoranthene		0.00002 *U*	NA	< 0.00002	< 0.002
Indeno(1,2,3-cd)pyrene		0.00005 *U*	NA	< 0.00005	< 0.002
Methylnaphthalene, 2-		0.002 *U*	NA	0.0038	< 0.002
Phenanthrene		0.0005 *U*	NA	< 0.0005	< 0.002
Pyrene		0.0001 *U*	NA	< 0.0001	< 0.002
Herbicides/Pesticides					
DDD, p,p'-		0.000005 1 *U*	NA	< 0.000005	< 0.000005
DDT, p,p'-		0.000007 1 *U*	NA	< 0.000007	< 0.000007
Endosulfan sulfate		0.000005 1 *U*	NA	< 0.000005	< 0.000005
Hexachlorocyclohexane, alpha-		0.000005 1 *U*	NA	< 0.000005	< 0.000005
Explosives					
Amino-2,6-dinitrotoluene, 4-		0.0001 *U*	NA	NA	< 0.0001
Dinitrotoluene, 2,4-		0.000268 C	NA	< 0.002	< 0.00006
Other					
Organic carbon, total (TOC)		NA	NA	4.47	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW08S	LF2MW08S	LF2MW09D	LF2MW09D
	RI PHASE:	II	II	II	II
	ROUND:	I	II	I	I
	DATE:	1/23/96	4/18/96	11/30/95	12/12/95
VOCs					
Acetone		NA	< 0.01	< 0.01	NA
SVOCs					
Anthracene		< 0.0001	< 0.0001	NA	< 0.0001
Benzo(a)anthracene		< 0.00002	< 0.00002	NA	< 0.00002
Benzo(a)pyrene		< 0.00001	< 0.00001	NA	< 0.00001
Benzo(g,h,i)perylene		< 0.0001	< 0.0001	NA	< 0.0001
Benzo(k)fluoranthene		< 0.00001	< 0.00001	NA	< 0.00001
Bis(2-ethylhexyl) phthalate		NA	< 0.002	NA	0.012
Diethyl phthalate		NA	< 0.002	NA	< 0.002
Fluoranthene		< 0.00002	< 0.00002	NA	< 0.00002
Indeno(1,2,3-cd)pyrene		< 0.00005	< 0.00005	NA	< 0.00005
Methylnaphthalene, 2-		< 0.002	< 0.002	NA	< 0.002
Phenanthrene		< 0.0005	< 0.0005	NA	< 0.0005
Pyrene		< 0.0001	< 0.0001	NA	< 0.0001
Herbicides/Pesticides					
DDD, p,p'-		NA	< 0.000005	NA	< 0.000005
DDT, p,p'-		NA	< 0.000007	NA	< 0.000007
Endosulfan sulfate		NA	0.000014 C	NA	< 0.000005
Hexachlorocyclohexane, alpha-		NA	< 0.000005	NA	< 0.000005
Explosives					
Amino-2,6-dinitrotoluene, 4-		NA	< 0.0001	NA	NA
Dinitrotoluene, 2,4-		NA	< 0.00006	NA	< 0.002
Other					
Organic carbon, total (TOC)		NA	< 1	NA	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW09D	LF2MW09D	LF2MW09D	LF2MW09D
	RI PHASE:	II	II	II	II
	ROUND:	I	II	II	II
CONSTITUENT	DATE:	2/12/96	4/19/96	5/3/96	6/11/96
VOCs					
Acetone		NA	< 0.01	NA	NA
SVOCs					
Anthracene		NA	NA	0.000166 rj	NA
Benzo(a)anthracene		NA	NA	< 0.00002	NA
Benzo(a)pyrene		NA	NA	< 0.00001	NA
Benzo(g,h,i)perylene		NA	NA	< 0.0001	NA
Benzo(k)fluoranthene		NA	NA	< 0.00001	NA
Bis(2-ethylhexyl) phthalate		NA	NA	< 0.002 r	NA
Diethyl phthalate		NA	NA	< 0.002 r	NA
Fluoranthene		NA	NA	< 0.00002	NA
Indeno(1,2,3-cd)pyrene		NA	NA	< 0.00005	NA
Methylnaphthalene, 2-		NA	NA	< 0.002 r	NA
Phenanthrene		NA	NA	< 0.0005	NA
Pyrene		NA	NA	< 0.0001	NA
Herbicides/Pesticides					
DDD, p,p'-		NA	NA	NA	< 0.000005
DDT, p,p'-		NA	NA	NA	< 0.000007
Endosulfan sulfate		NA	NA	NA	< 0.000005
Hexachlorocyclohexane, alpha-		NA	NA	NA	< 0.000005
Explosives					
Amino-2,6-dinitrotoluene, 4-		NA	NA	NA	NA
Dinitrotoluene, 2,4-		NA	NA	< 0.002 r	NA
Other					
Organic carbon, total (TOC)		3.14	NA	4.64	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW09S	LF2MW09S	LF2MW09S	LF2MW09S	LF2MW10
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	I	II	I
	DATE:	11/30/95	1/23/96	2/13/96	4/18/96	1/24/96
VOCs						
Acetone		0.01 *UJ*	NA	NA	< 0.01	NA
SVOCs						
Anthracene		0.002 *U*	< 0.0001	NA	< 0.0001	NA
Benzo(a)anthracene		0.002 *U*	< 0.00002	NA	< 0.00002	NA
Benzo(a)pyrene		0.002 *U*	< 0.00001	NA	< 0.00001	NA
Benzo(g,h,i)perylene		0.002 *UJ*	< 0.0001	NA	< 0.0001	NA
Benzo(k)fluoranthene		0.002 *U*	< 0.00001	NA	< 0.00001	NA
Bis(2-ethylhexyl) phthalate		0.002 *U*	NA	NA	< 0.002	NA
Diethyl phthalate		0.002 *U*	NA	NA	< 0.002	NA
Fluoranthene		0.002 *U*	< 0.00002	NA	< 0.00002	NA
Indeno(1,2,3-cd)pyrene		0.002 *U*	< 0.00005	NA	< 0.00005	NA
Methylnaphthalene, 2-		0.002 *U*	< 0.002	NA	< 0.002	NA
Phenanthrene		0.002 *U*	< 0.0005	NA	< 0.0005	NA
Pyrene		0.002 *U*	< 0.0001	NA	< 0.0001	NA
Herbicides/Pesticides						
DDD, p,p'-		0.000005 *UJ*	NA	NA	< 0.000005	< 0.000005
DDT, p,p'-		0.000007 *U*	NA	NA	< 0.000007 po	< 0.000007
Endosulfan sulfate		0.000005 *U*	NA	NA	< 0.000005	< 0.000005
Hexachlorocyclohexane, alpha-		0.000005 *U*	NA	NA	< 0.000005	< 0.000005
Explosives						
Amino-2,6-dinitrotoluene, 4-		0.0001 *U*	NA	NA	< 0.0001	NA
Dinitrotoluene, 2,4-		0.00006 *U*	NA	NA	< 0.00006	NA
Other						
Organic carbon, total (TOC)		NA	NA	1.22	< 1	NA

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID:	LF2MW10	LF2MW10	LF2MW10	LF2MW10	LF2MW10
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	I	II	II
	DATE:	11/29/95	12/1/95	2/12//96	4/18/96	4/20/96
VOCs						
Acetone		< 0.01	NA	NA	< 0.01	NA
SVOCs						
Anthracene		NA	< 0.0001	NA	NA	< 0.0001
Benzo(a)anthracene		NA	< 0.00002	NA	NA	< 0.00002
Benzo(a)pyrene		NA	< 0.00001	NA	NA	< 0.00001
Benzo(g,h,i)perylene		NA	< 0.0001	NA	NA	< 0.0001
Benzo(k)fluoranthene		NA	< 0.00001	NA	NA	< 0.00001
Bis(2-ethylhexyl) phthalate		NA	< 0.002	NA	NA	< 0.002
Diethyl phthalate		NA	< 0.002	NA	NA	< 0.002
Fluoranthene		NA	< 0.00002	NA	NA	< 0.00002
Indeno(1,2,3-cd)pyrene		NA	< 0.00005	NA	NA	< 0.00005
Methylnaphthalene, 2-		NA	< 0.002	NA	NA	< 0.002
Phenanthrene		NA	< 0.0005	NA	NA	< 0.0005
Pyrene		NA	< 0.0001	NA	NA	< 0.0001
Herbicides/Pesticides						
DDD, p,p'-		NA	< 0.000005 1	NA	NA	< 0.000005
DDT, p,p'-		NA	< 0.000007 1	NA	NA	< 0.000007 po
Endosulfan sulfate		NA	< 0.000005 1	NA	NA	0.000014 C
Hexachlorocyclohexane, alpha-		NA	< 0.000005 1	NA	NA	< 0.000005
Explosives						
Amino-2,6-dinitrotoluene, 4-		NA	< 0.0001	NA	NA	< 0.0001
Dinitrotoluene, 2,4-		NA	< 0.00006	NA	NA	< 0.00006
Other						
Organic carbon, total (TOC)		NA	NA	1.21	NA	1.89

Table 5-20. Detection Summary of Organic Constituents in Beach Area and LF2/SARN Groundwater Samples (mg/L), Surplus Operable Unit, Fort Sheridan, Illinois

	SITE ID:	LF2MW11	LF2MW11	LF2MW11 Dup	LF2MW11	LF2MW11
	RI PHASE:	II	II	II	II	II
	ROUND:	I	I	I	II	II
CONSTITUENT	DATE:	12/4/95	2/15/96	2/15/96	4/19/96	4/20/96
VOCs						
Acetone		0.01 *UJ*	NA	NA	< 0.01	NA
SVOCs						
Anthracene		0.0001 *U*	NA	NA	NA	< 0.0001
Benzo(a)anthracene		0.00002 *U*	NA	NA	NA	< 0.00002
Benzo(a)pyrene		0.00001 *U*	NA	NA	NA	< 0.00001
Benzo(g,h,i)perylene		0.0001 *U*	NA	NA	NA	< 0.0001
Benzo(k)fluoranthene		0.00001 *U*	NA	NA	NA	< 0.00001
Bis(2-ethylhexyl) phthalate		0.002 *U*	NA	NA	NA	< 0.002
Diethyl phthalate		0.002 *U*	NA	NA	NA	< 0.002
Fluoranthene		0.00002 *U*	NA	NA	NA	< 0.00002
Indeno(1,2,3-cd)pyrene		0.00005 *U*	NA	NA	NA	< 0.00005
Methylnaphthalene, 2-		0.002 *U*	NA	NA	NA	< 0.002
Phenanthrene		0.0005 *U*	NA	NA	NA	< 0.0005
Pyrene		0.0001 *U*	NA	NA	NA	< 0.0001
Herbicides/Pesticides						
DDD, p,p'-		0.000005 *UJ*	NA	NA	NA	< 0.000005
DDT, p,p'-		0.000007 *U*	NA	NA	NA	< 0.000007 po
Endosulfan sulfate		0.000082 C	NA	NA	NA	0.000031 C
Hexachlorocyclohexane, alpha-		0.0000058 *U*	NA	NA	NA	< 0.000005
Explosives						
Amino-2,6-dinitrotoluene, 4-		0.000177 C	NA	NA	NA	< 0.0001
Dinitrotoluene, 2,4-		0.00006 *U*	NA	NA	NA	< 0.00006
Other						
Organic carbon, total (TOC)		NA	< 1	1.09 D	NA	1.26

Note: j = Low spike recovery is low, o = Low spike recoveries excessively different (IRDMIS Qualifiers)
p = high spike recoveries excessively different, r = Data is rejected (IRDMIS Qualifiers)
1 = Results less than the certified reporting limit, but greater than the criteria of detection (IRDMIS Qualifiers)
C = Analysis was confirmed, D = Duplicate analysis (IRDMIS Flags)
J = Value is estimated, P = Results less than reporting level but greater than instrumental detection limit (IRDMIS Flags)
U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)
J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)
UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)
NA = Not analyzed, VOC = Volatile organic compound, SVOCs = Semi-volatile organic compounds, mg/L = Milligrams per liter
QST, 1998

Table 5-21. Survival and Growth of *Hyalella azteca* Exposed to Whole Sediments From The Surplus Operable Unit, Fort Sheridan, Illinois During a 28-Day Chronic Toxicity Test (Page 1 of 2)

Sample ID	Replicate[a]	No. Alive	Growth as	Growth as Dry
	(% Survival)	Length (mm)	Weight (mg)	
CONTROL	A	18	3.7	0.34
	B	19	3.8	0.33
	C	19	4.1	0.37
	D	19	3.7	0.32
		75 (94%)	3.8	0.34
JRBSD01	A	20	3.9	0.50
	B	20	3.9	0.45
	C	19	4.0	0.52
	D	20	4.0	0.56
		79 (99%)	4.0	0.51
JRBSD02	A	18	3.7	0.36
	B	19	3.8	0.39
	C	20	4.1	0.50
	D	20	4.0	0.56
		77 (96%)	3.9	0.45
JRBSD03	A	20	4.2	0.52
	B	19	4.0	0.57
	C	20	4.1	0.50
	D	20	3.9	0.49
		79 (99%)	4.1	0.52
JRBSD04[b]	A	19	3.9	0.38
	B	18	4.0	0.50
	C	20	4.0	0.37
	D	18	3.9	0.36
		75 (94%)	4.0	0.40
JRBSD05[b]	A	19	3.9	0.48
	B	20	3.8	0.42
	C	16	4.0	0.48
	D	18	4.0	0.50
		73 (91%)	3.9	0.47
HRBSD01	A	20	3.9	0.36
	B	20	4.0	0.42
	C	20	4.1	0.45
	D	20	4.1	0.48
		80 (100%)	4.0	0.43

Table 5-21. Survival and Growth of *Hyalella azteca* Exposed to Whole Sediments From The Surplus Operable Unit, Fort Sheridan, Illinois During a 28-Day Chronic Toxicity Test (Page 2 of 2)

Sample ID	Replicate[a]	No. Alive	Growth as	Growth as Dry
	(% Survival)	Length (mm)	Weight (mg)	
HRBSD02	A	17	3.8	0.36
B	18	3.8	0.43	
C	17	4.1	0.44	
D	20	3.8	0.42	
	72 (90%)	3.9	0.41	
HRBSD03	A	19	4.0	0.48
B	18	4.3	0.58	
C	19	4.1	0.53	
D	20	4.2	0.57	
	76 (95%)	4.2	0.54	
HRBSD04	A	17	4.5	0.61
B	18	4.0	0.54	
C	19	3.8	0.38	
D	16	4.0	0.45	
	70 (88%)	4.1	0.50	
HRBSD05	A	20	4.2	0.56
B	20	3.8	0.43	
C	20	4.0	0.54	
D	20	4.0	0.53	
	80 (100%)	4.0	0.52	
BRBSD01	A	20	3.8	0.39
B	18	3.7	0.41	
C	19	3.9	0.42	
D	20	4.0	0.45	
	77 (96%)	3.9	0.42	
BRBSD02	A	16	3.6	0.37
B	19	3.6	0.35	
C	20	4.1	0.54	
D	19	4.1	0.53	
	74 (93%)	3.9	0.45	
SRBSD01[b]	A	20	4.2	0.60
B	20	4.1	0.54	
C	20	3.8	0.44	
D	18	3.8	0.47	
	78 (98%)	4.0	0.51	

[a] Twenty organisms exposed per replicate
[b] Background sample

Table 5-22. Detection Summary of Constituents in Ravine *Lumbriculus variegatus* Tissue Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: HRBSD01 / RI PHASE: III	JRBSD01 III	JRBSD04* III	CONTROL III
Metals				
Aluminum	29.5	79.4	77.3	15.0
Arsenic	0.365	0.348	0.325	0.201
Barium	16.9	15.6	15.7	13.1
Cadmium	0.0372	0.0826	0.0547	0.026
Calcium	350	558	366	527
Chromium, total	0.0491 *U*	0.217	0.102	0.061
Cobalt	0.17	0.239	0.209	0.109
Copper	3.25	5.27	3.44	2.89
Iron	114	171	137	69.5
Lead	0.327	0.376	0.252	0.175
Magnesium	103	147	104	103
Manganese	2.41	4.97	3.68	1.45
Mercury	0.0109	0.0149	0.0165	< 0.01
Nickel	0.318	1.19	0.501	0.379
Potassium	615	614	557	1130
Selenium	0.318	0.286	0.275	0.274
Silver	0.0117	0.0103	0.0125	0.007
Sodium	212	230	217	516
Thallium	0.0513	0.0376	0.0597	0.053
Vanadium	0.0808	0.214	0.164	0.065
Zinc	48.3	44.6	42.2	47.4
Pesticides/Herbicides				
Aldrin	0.0019 C	0.0018 C	< 0.00067	0.00226 C
Chlordane, alpha-	0.0036 C	0.0087 C	0.0017 C	0.00263 C
Chlordane, gamma-	0.0055 C	0.0092 C	0.0068 C	0.0105 C
DDD, p,p'-	0.38 C*J*	0.08 C	0.017 C	0.00304 C
DDE, p,p'-	0.096 C*U*	0.034 C	0.014 C	0.00658 C
DDT, p,p'-	0.0023 C	0.0024 C	< 0.00067	0.00331 C
Methoxychlor	0.00067 *UJ*	0.0031 C	0.0027 C	< 0.00067
Explosives				
Amino-4,6-dinitrotoluene, 2-	52.5 Q	55 Q	62.5 Q	67.5 Q
RDX	3.0 Q	4.3 Q	2.4 Q	0.87 Q

Note: C = Analysis was confirmed (IRDMIS Flag)
Q = Sample interference obscured peak of interest (IRDMIS Flag)
U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. (NFG Qualifier)
J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated. (NFG Qualifier)
UJ = The analyte/compound is not detected above the reported sample quanititation limit. However, the reported quanititation limit is approximate. (NFG Qualifier)
* = Reference Sample
mg/kg = Milligrams per kilogram
QST, 1998

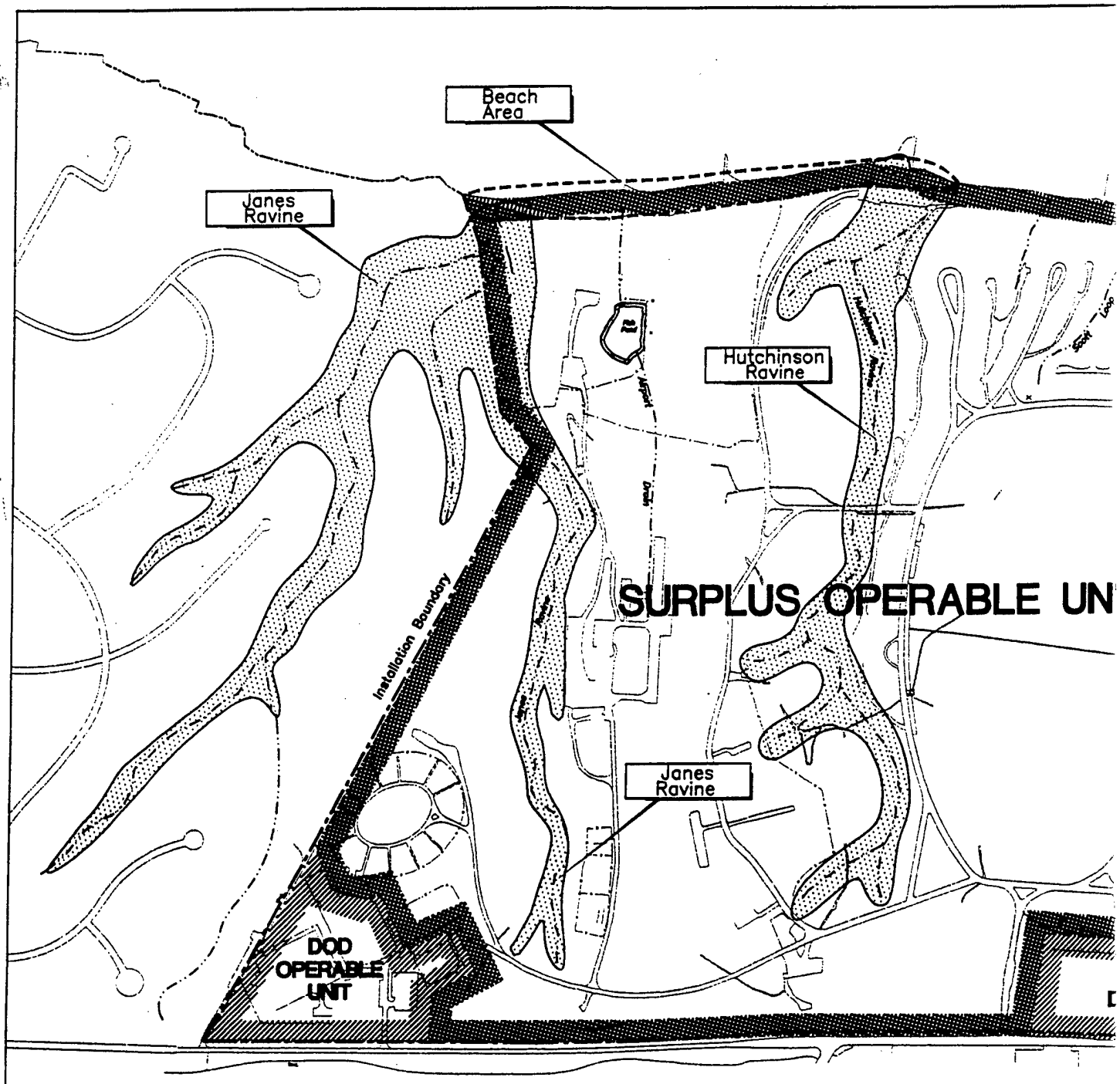
Table 5-23. Detection Summary of Constituents in Beach *Lumbriculus variegatus* Tissue Samples (mg/kg), Surplus Operable Unit, Fort Sheridan, Illinois

CONSTITUENT	SITE ID: / PHASE:	HRBSD06 III	JRBSD06 III	BLDBSD01* III	CONTROL III
SVOCs					
Benzyl alcohol		2.2	2.4	1.8	2.3
Bis(2-ethylhexyl) phthalate		1.3	1.1	< 1	< 1
Metals					
Aluminum		13.9	25.2	11.6	15.0
Arsenic		0.251	0.252	0.247	0.201
Barium		19.1	17.1	17.7	13.1
Cadmium		0.0336	0.0377	0.0346	0.026
Calcium		417	714	394	527
Chromium, total		0.0852	0.094	0.0833	0.061
Cobalt		0.189	0.201	0.16	0.109
Copper		3.29	3.44	3.15	2.89
Iron		98.4	110	103	69.5
Lead		0.23	0.264	0.251	0.175
Magnesium		131	150	150	103
Manganese		2.31	2.69	2.16	1.45
Nickel		0.322	0.48	0.33	0.379
Potassium		1330	1240	1310	1130
Selenium		0.282	0.327	0.384	0.274
Silver		< 0.00499	0.00478	0.00681	0.007
Sodium		606	591	605	516
Thallium		0.0951	0.116	0.0933	0.053
Vanadium		0.0812	0.0895	0.0555	0.065
Zinc		51.7	51.3	58.6	47.4
Pesticides/Herbicides					
Aldrin		0.0014 C	0.0023 C	0.0017 C	0.00226 C
Chlordane, alpha-		0.002 C	0.0032 C	0.0019 C	0.00263 C
Chlordane, gamma-		0.0054 C	0.0087 C	0.0063 C	0.0105 C
DDD, p,p'-		0.064 C	0.019 C	0.016 C	0.00304 C
DDE, p,p'-		0.012 C	0.01 C	0.011 C	0.00658 C
DDT, p,p'-		< 0.00067	0.0033 C	0.0039 C	0.00331 C
Endosulfan B		< 0.00067	< 0.00067	0.0012 C	< 0.00067
Methoxychlor		0.001 C	0.0035 C	0.0037 C	< 0.00067
Explosives					
Amino-4,6-dinitrotoluene, 2-		102 Q	85 Q	95 Q	67.5 Q
RDX		2.1 Q	3.2 Q	4.7 Q	0.87 Q

Note: C = Analysis was confirmed (IRDMIS Flag)
Q = Sample interference obscured peak of interest (IRDMIS Flag)
* = Reference Sample
mg/kg = Milligrams per kilogram
SVOCs = Semi-volatile organic compounds

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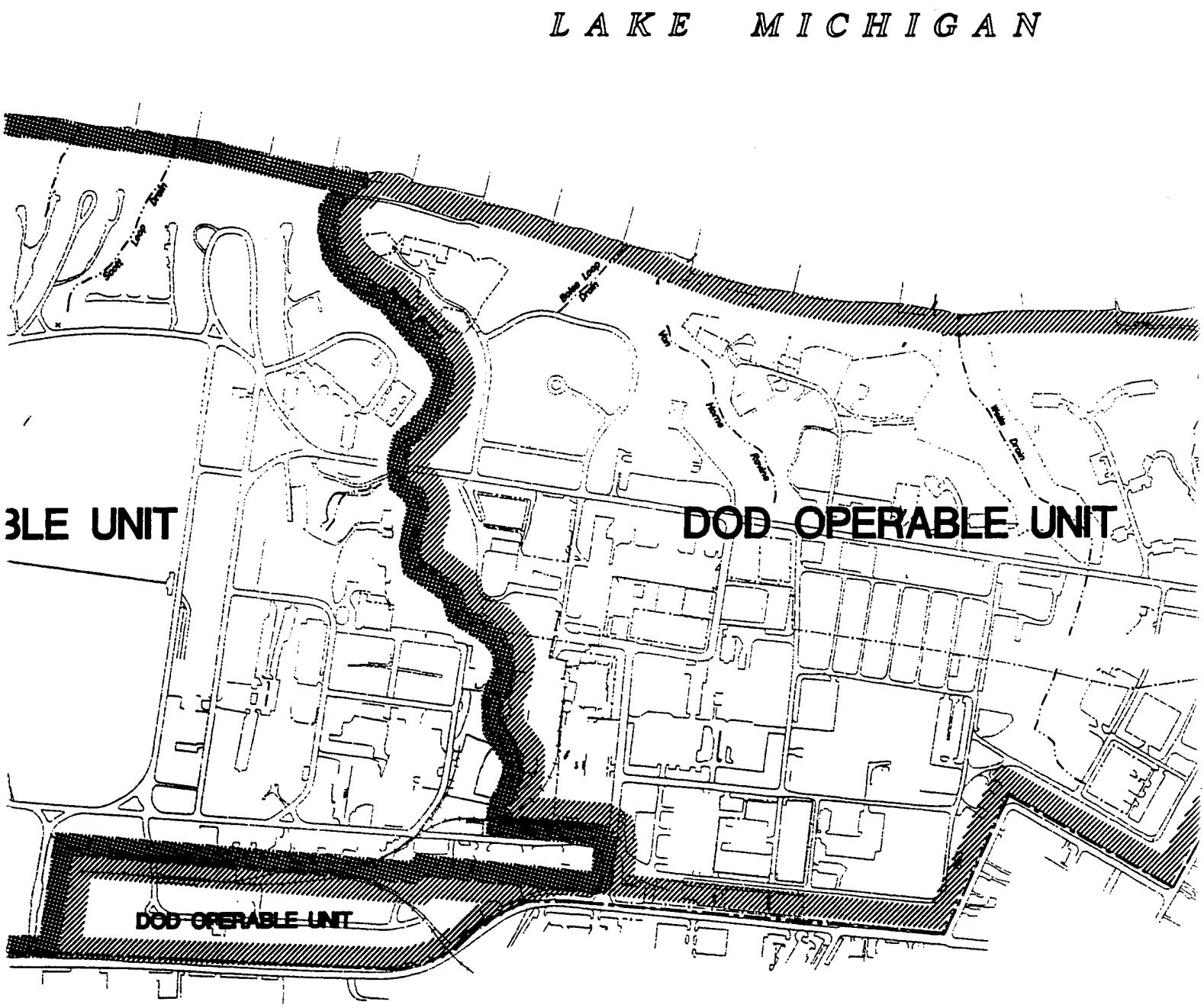


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Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photo
Ravines, shoreline and roads north of installation adapted from USGS 7.5' topographic quadrangle, Highland Par



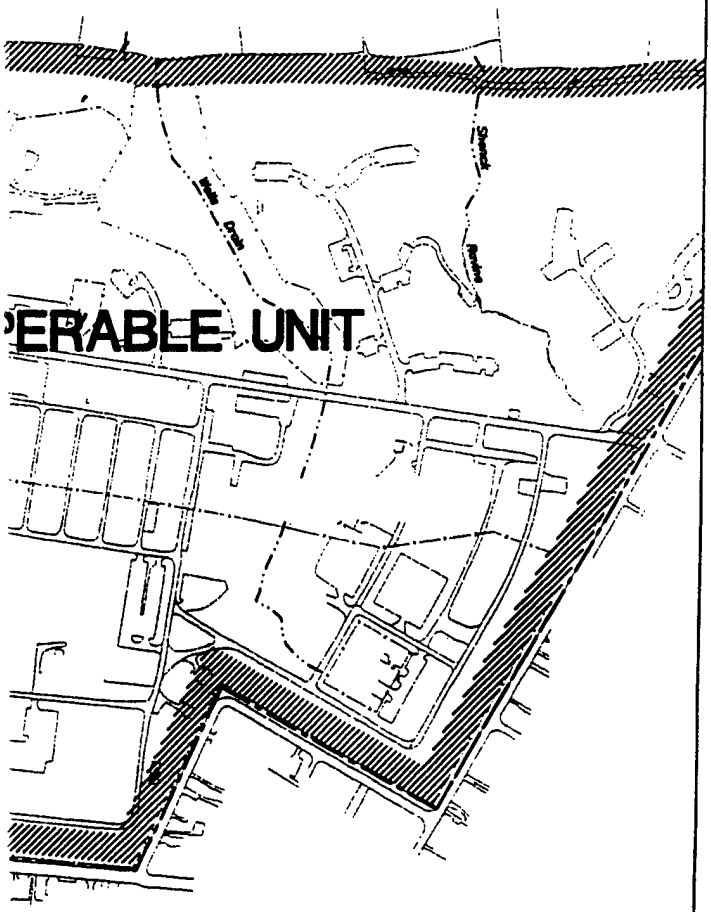
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Figure 5-1
Ravines and Beach Area
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois

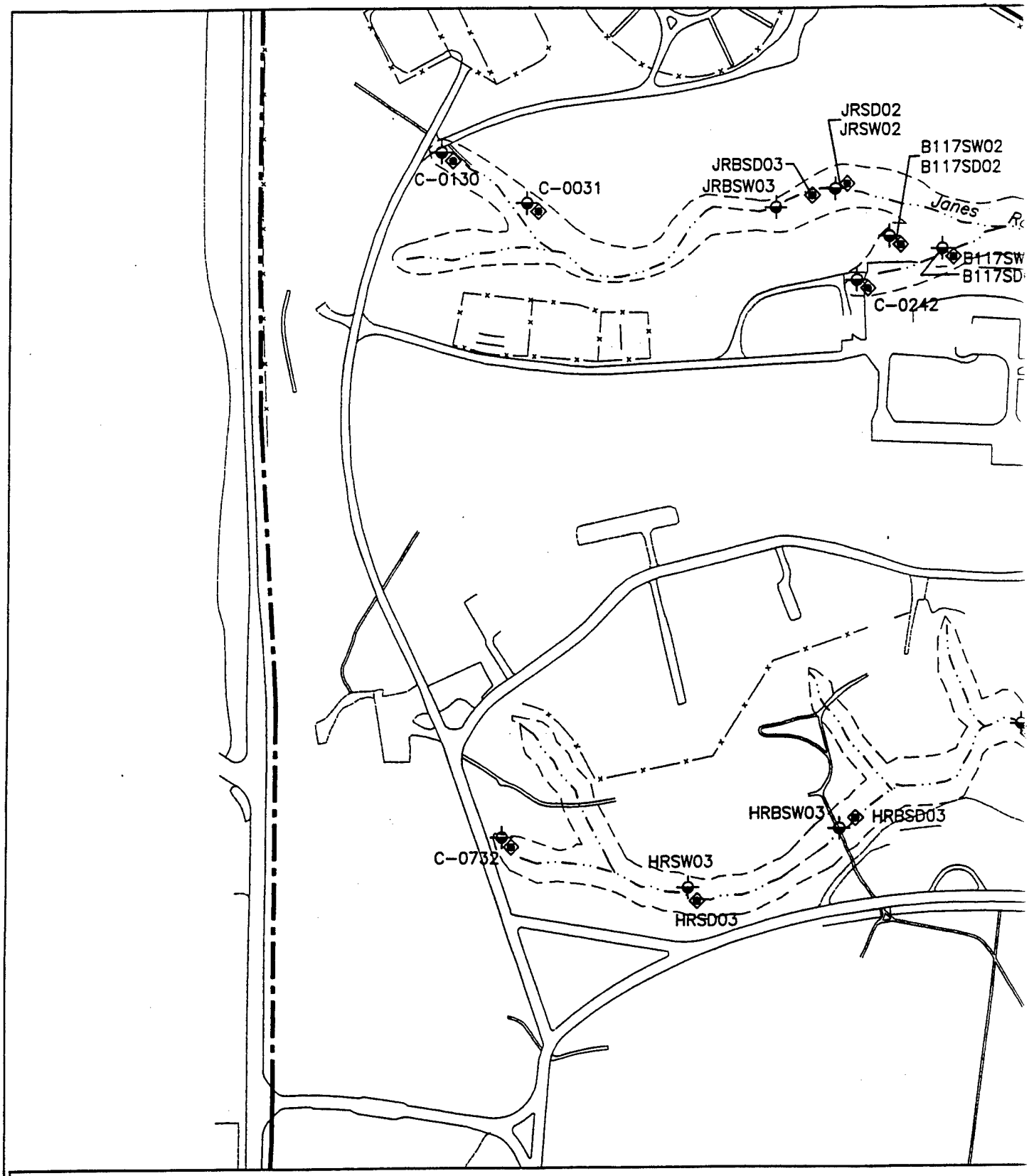
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◆ Sediment Sample Location

⊕ Surface Water Sample Location

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Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photo

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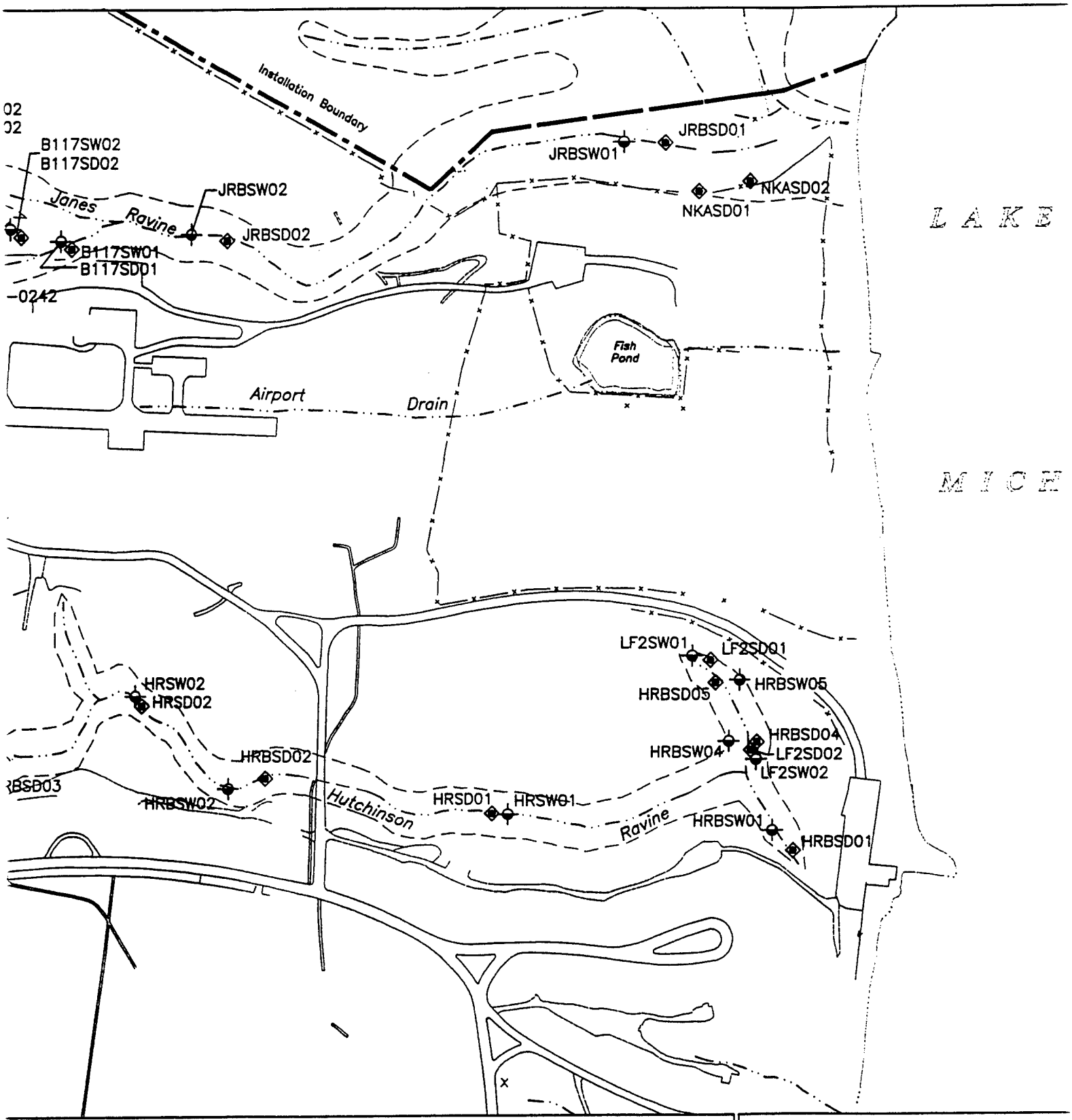


Figure 5-2
Janes and Hutchinson Ra
Sampling Locations
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois

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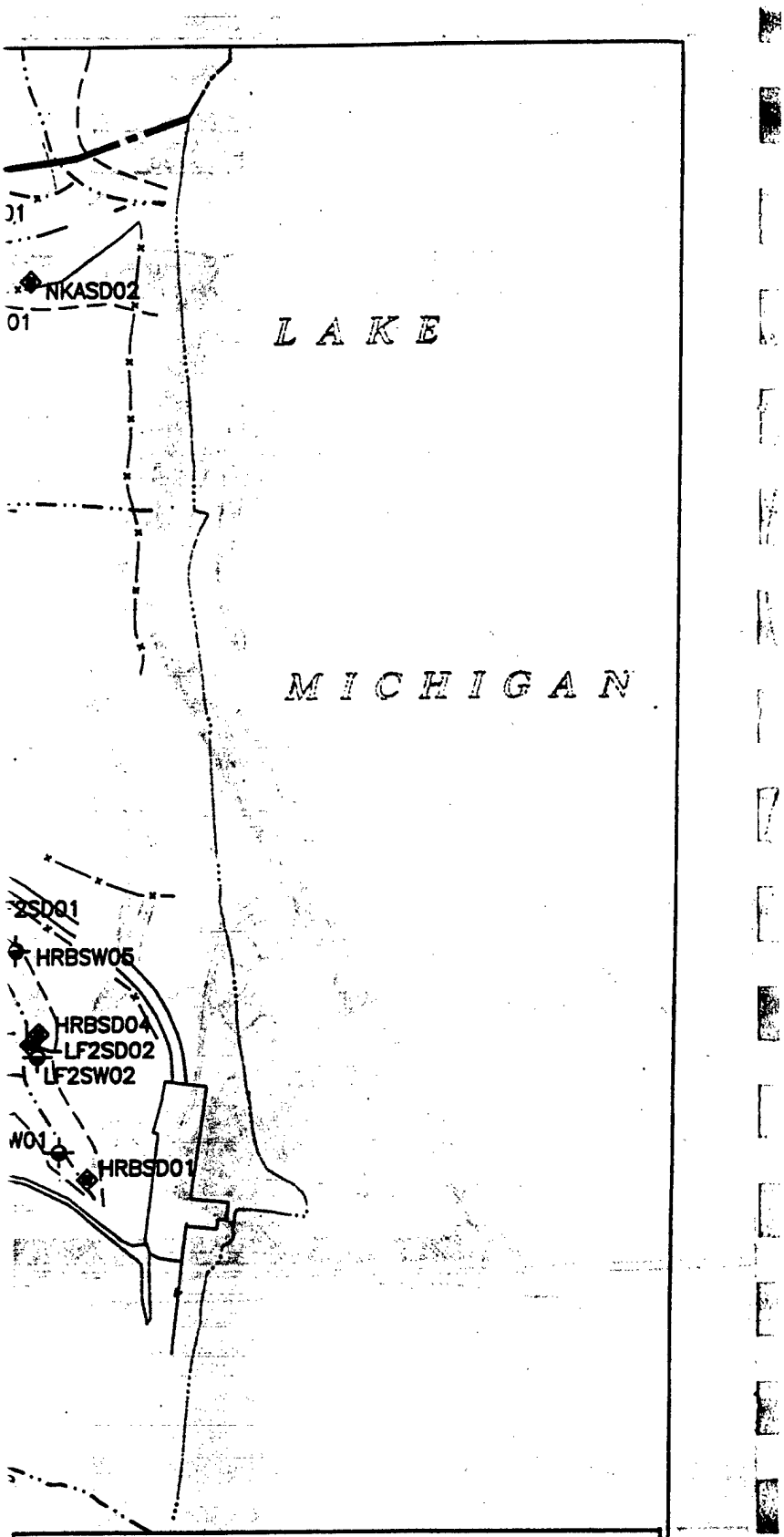
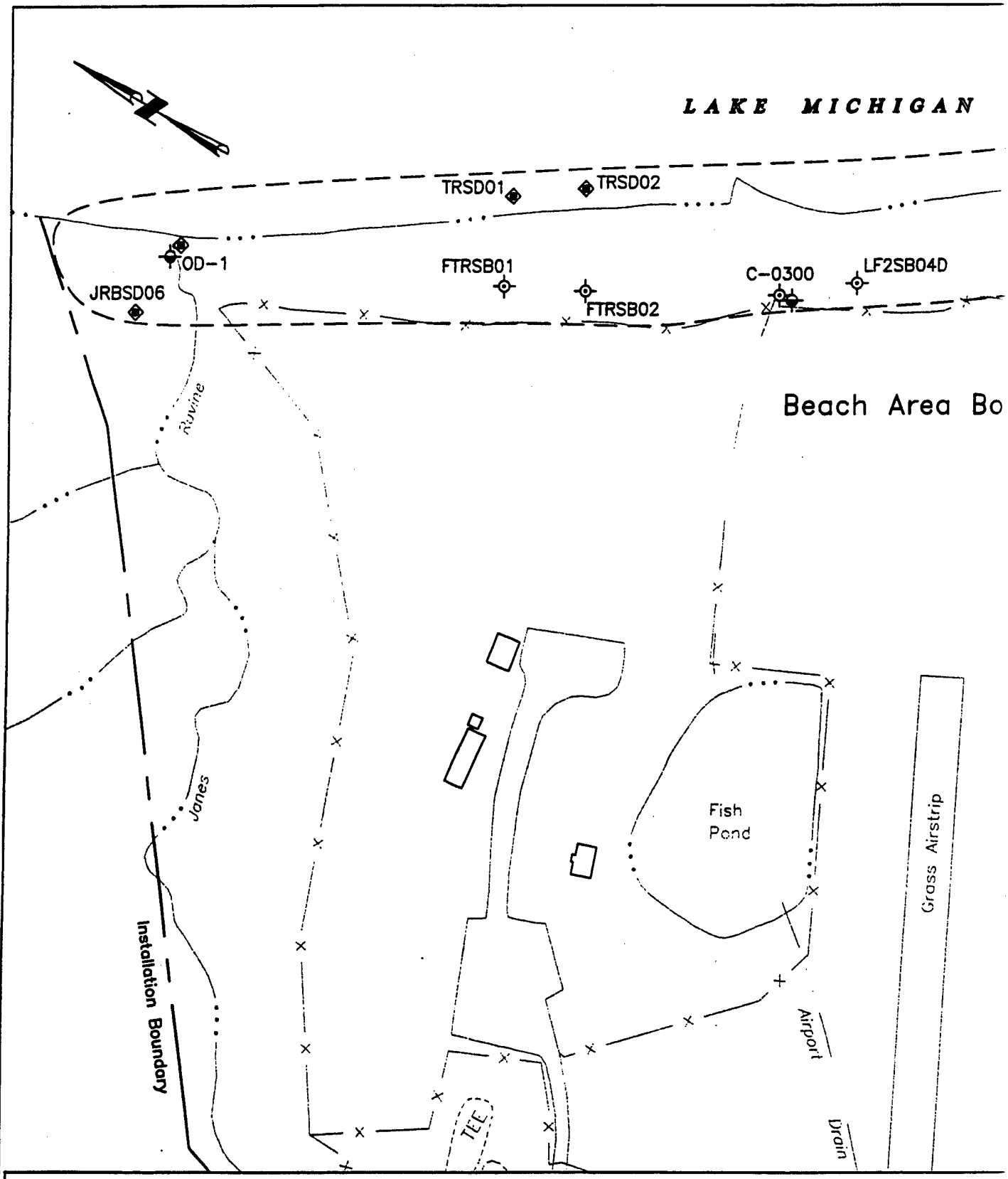


Figure 5-2
Janes and Hutchinson Ravines Sampling Locations
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois



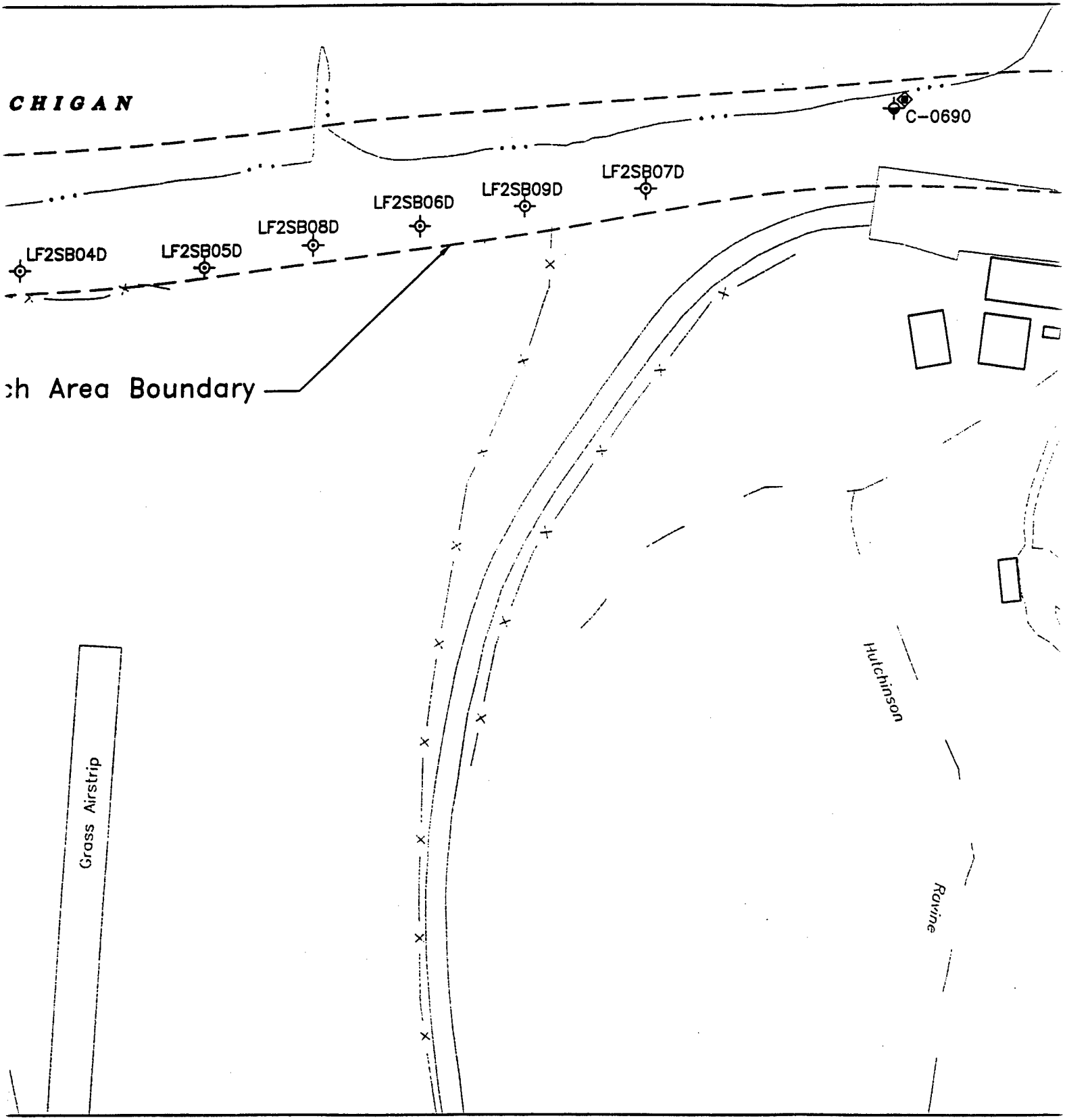
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Installation information adapted from an aerial survey

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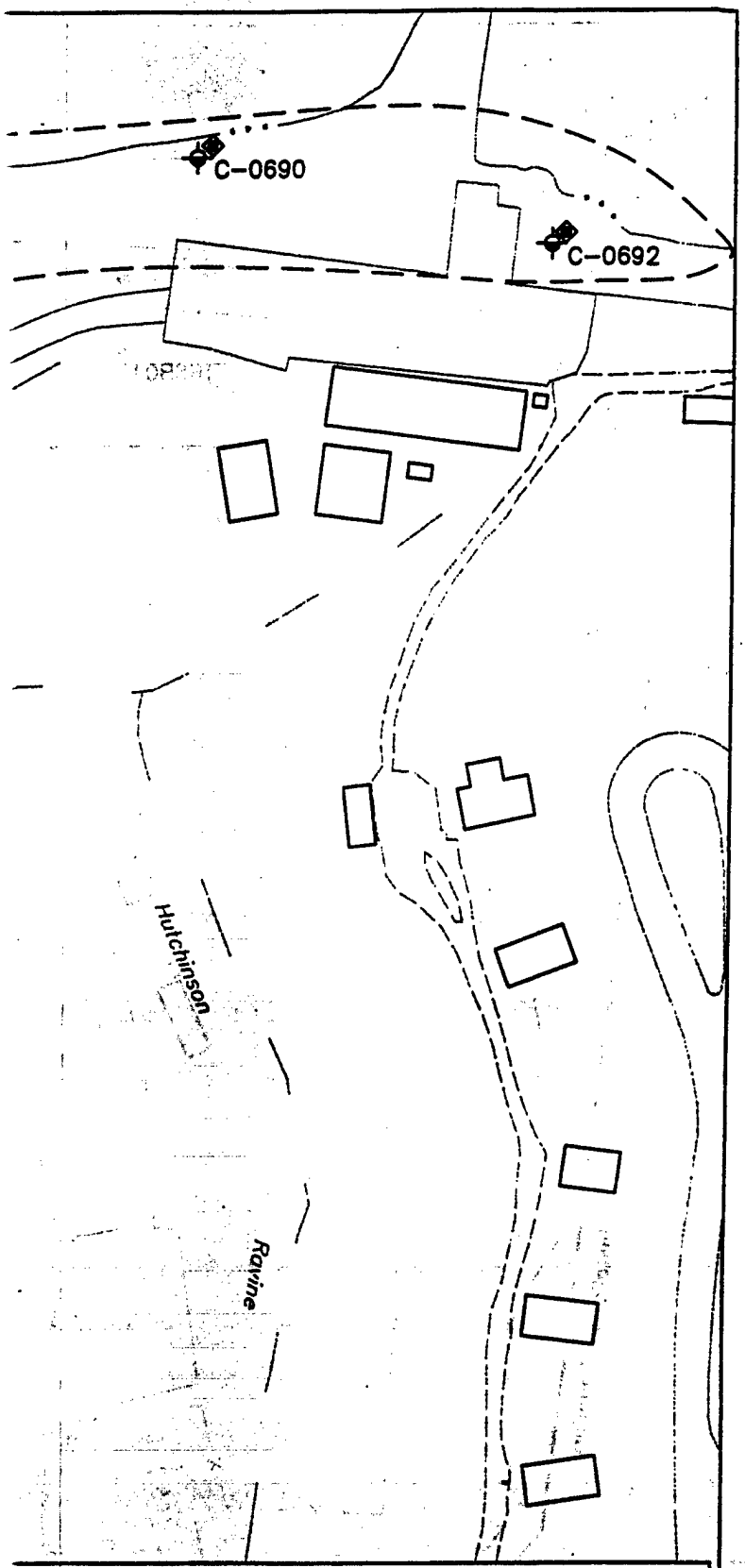
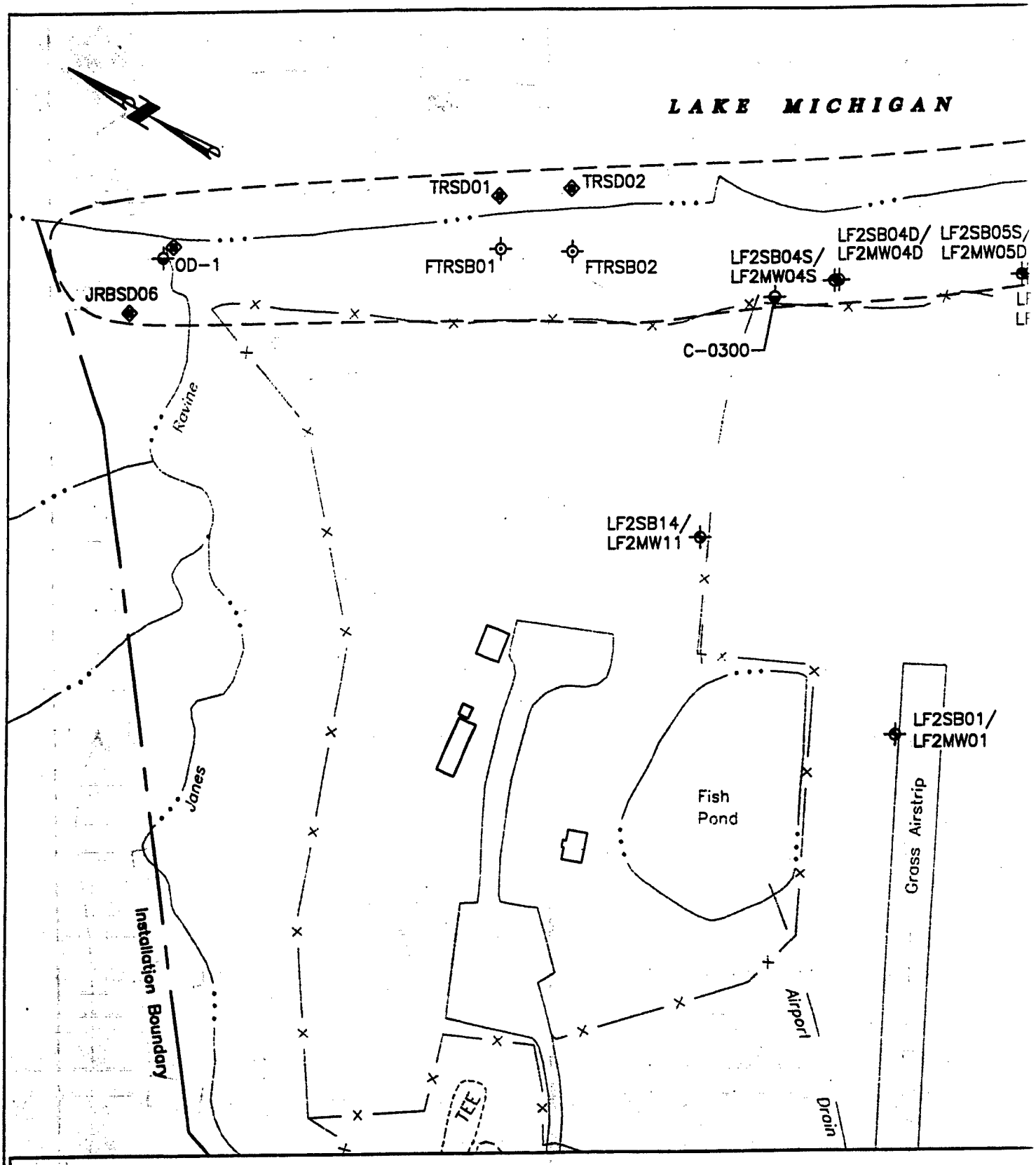


Figure 5-3
Beach Area Sampling Locations

Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

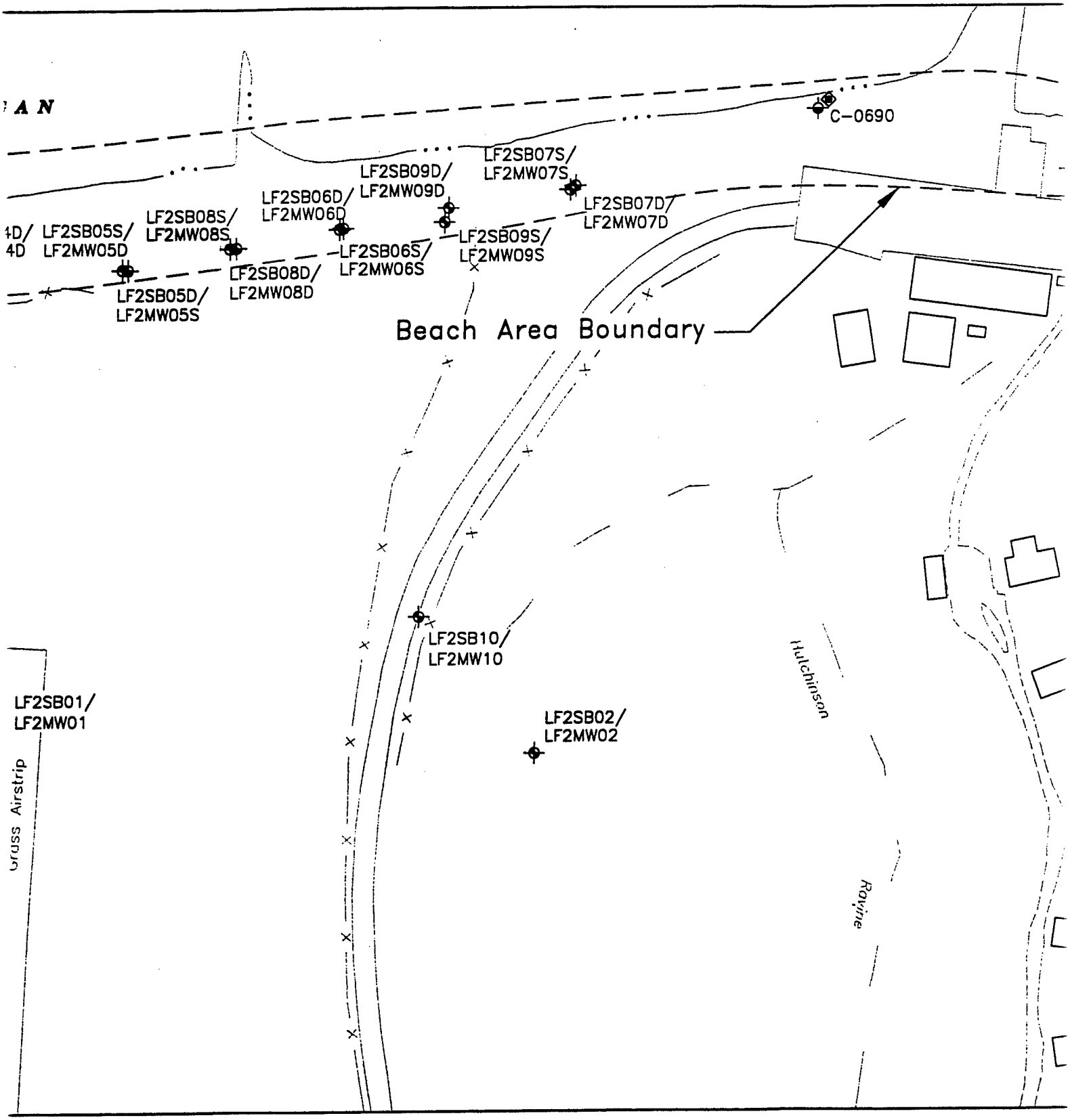
Fort Sheridan, Illinois



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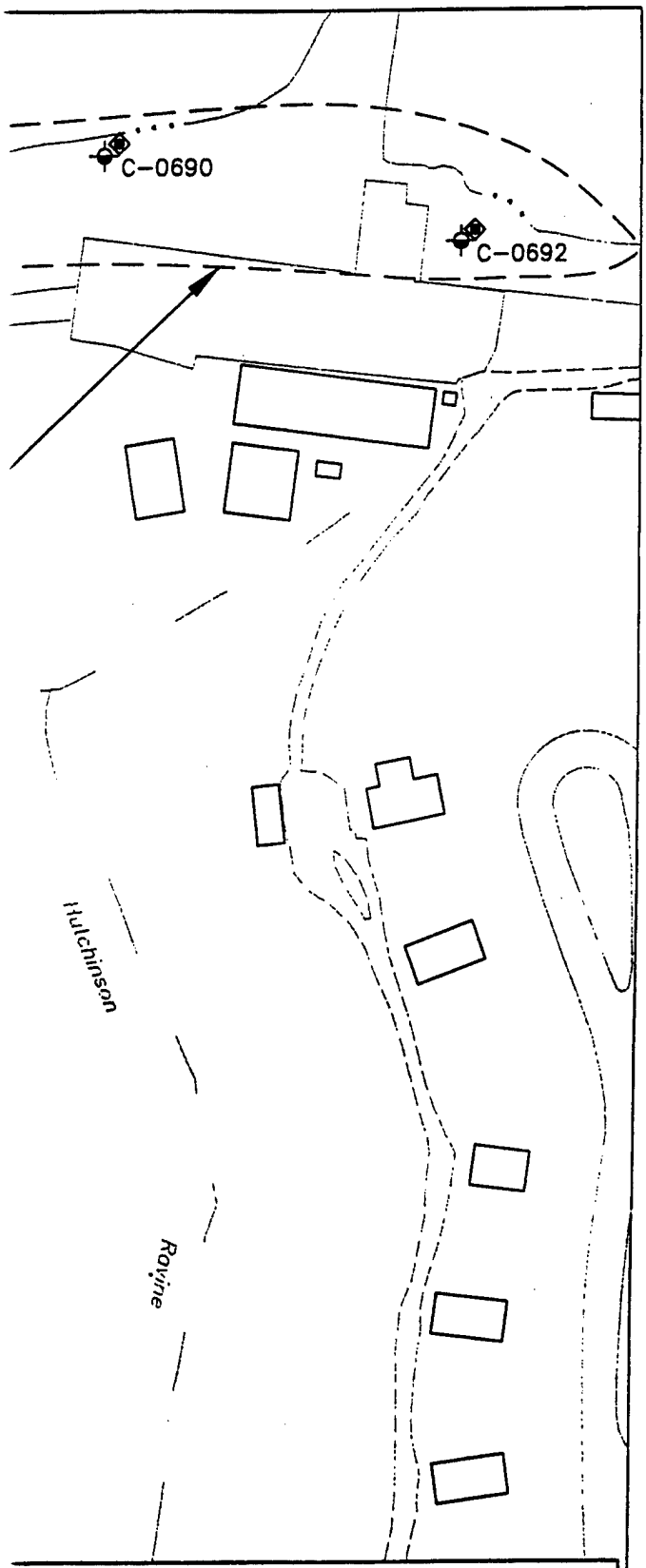
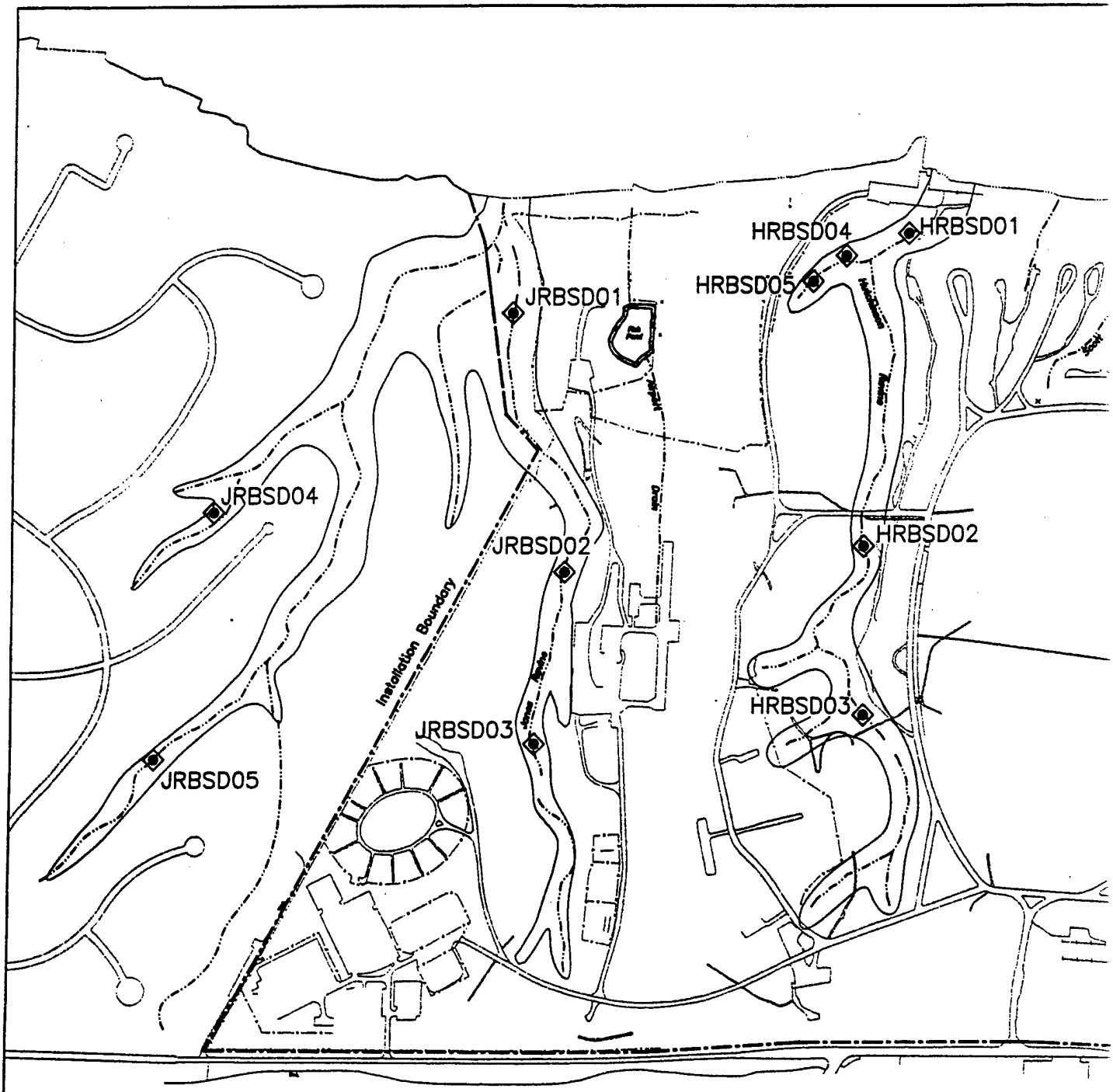


Figure 5-4
Monitoring Well Locations

Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

Fort Sheridan, Illinois



◈ Hyalella azteca Sediment Sample Location

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Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of pho
Ravines, shoreline and roads north of installation adapted from USGS 7.5' topographic quadrangle, Highland P



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uadrangle, Highland Park, Ill., 1963; photo revised 1972 & 1980.

Figure 5-5
Hyalella azteca
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Final RI/BRA for the Ravines a
Beach Area Study Areas of th
Surplus Operable Unit
Fort Sheridan, Illinois

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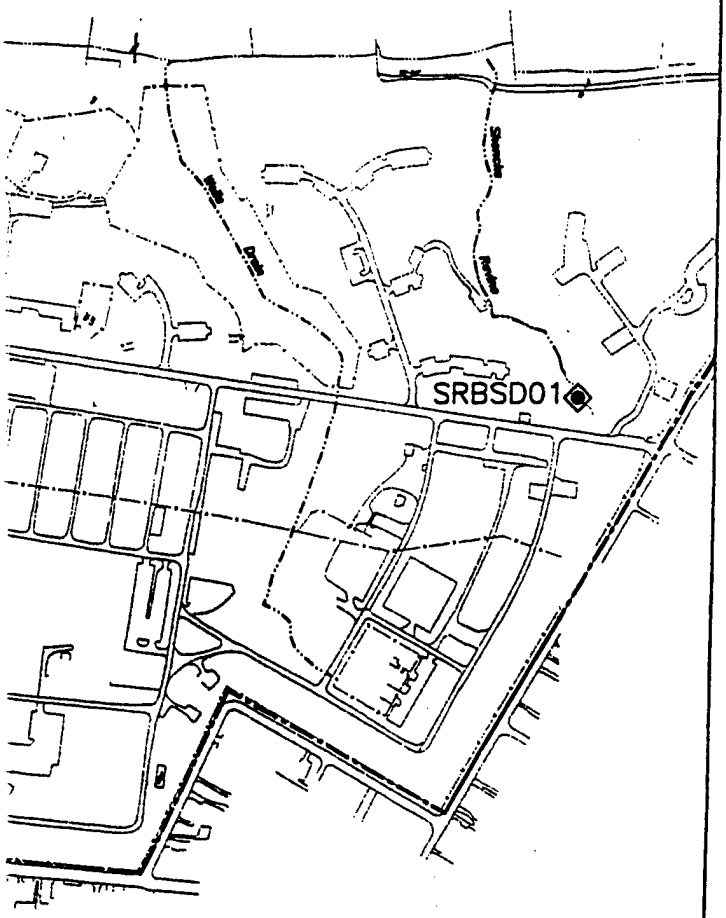
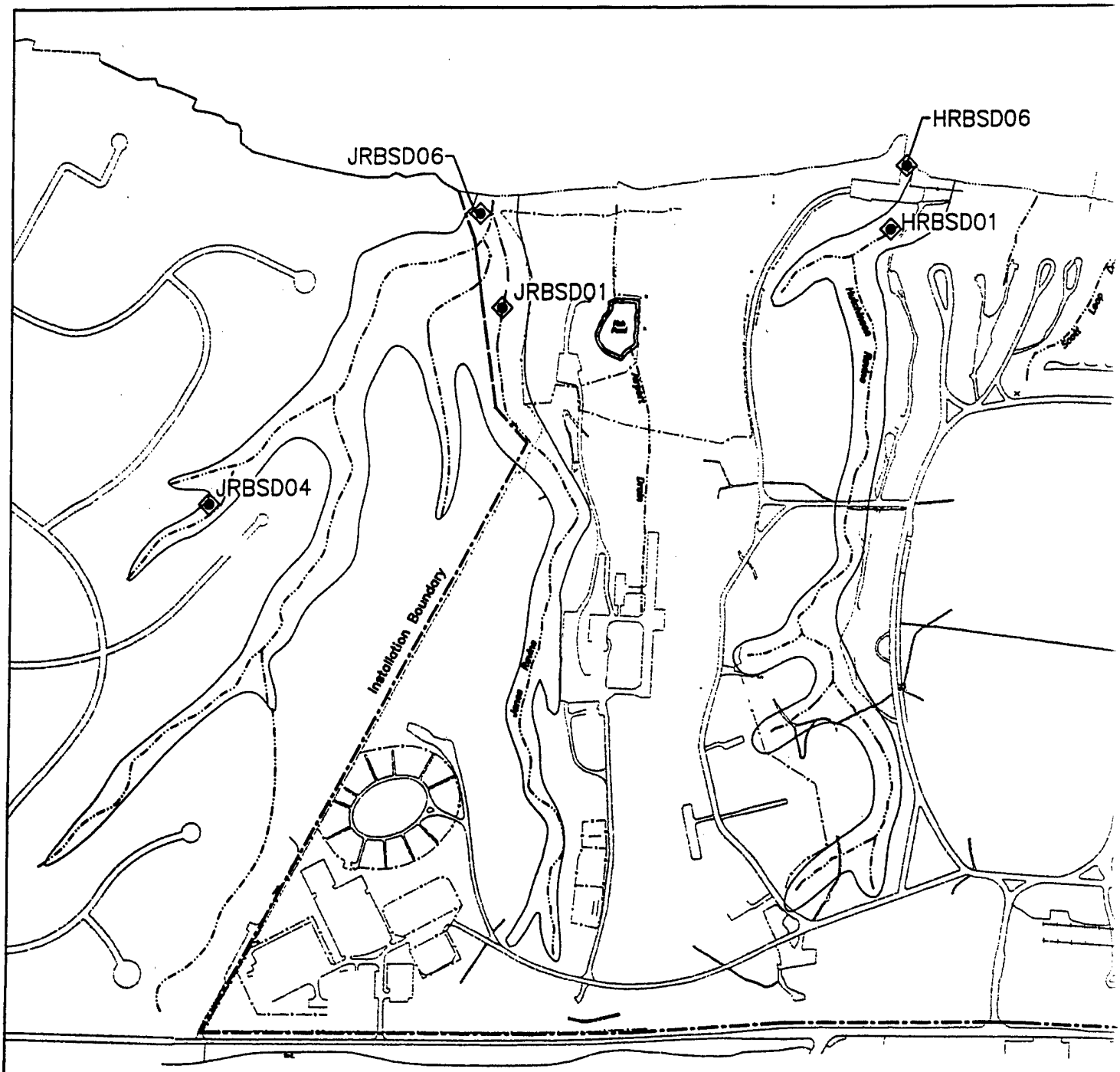


Figure 5-5
Hyalella azteca
Sediment Sampling Locations
Final RI/BRA for the Ravines and
Beach Area Study Areas of the
Surplus Operable Unit
Fort Sheridan, Illinois



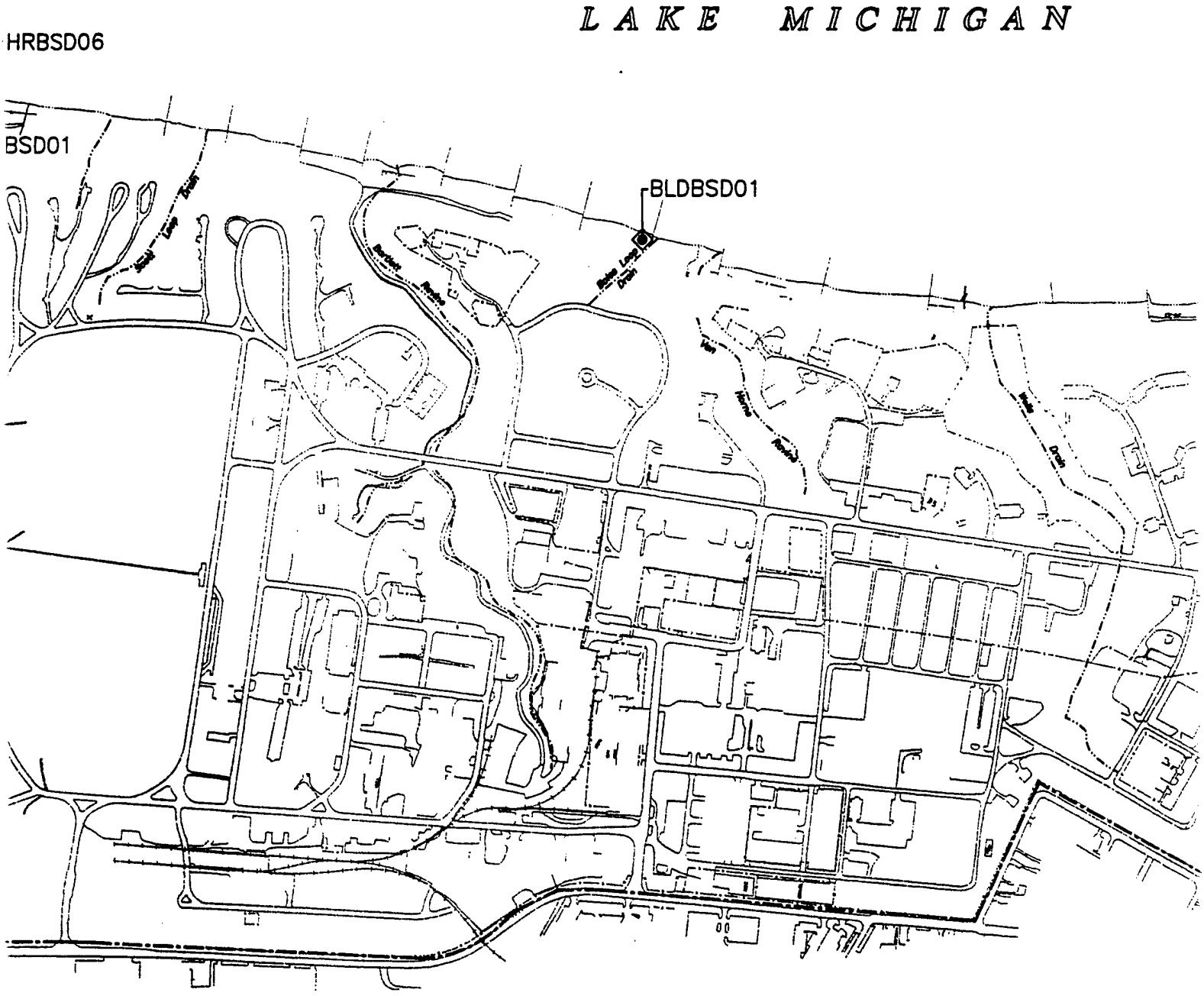
◈ Lumbriculus variegatus Sediment Sample Location

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Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photog
Ravines, shoreline and roads north of installation adapted from USGS 7.5' topographic quadrangle, Highland Park,

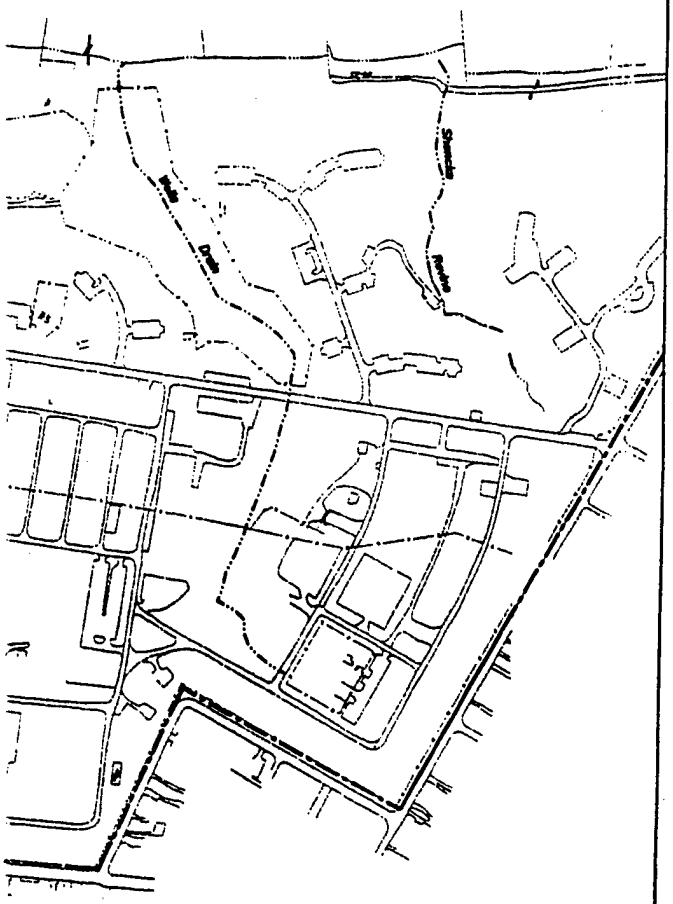


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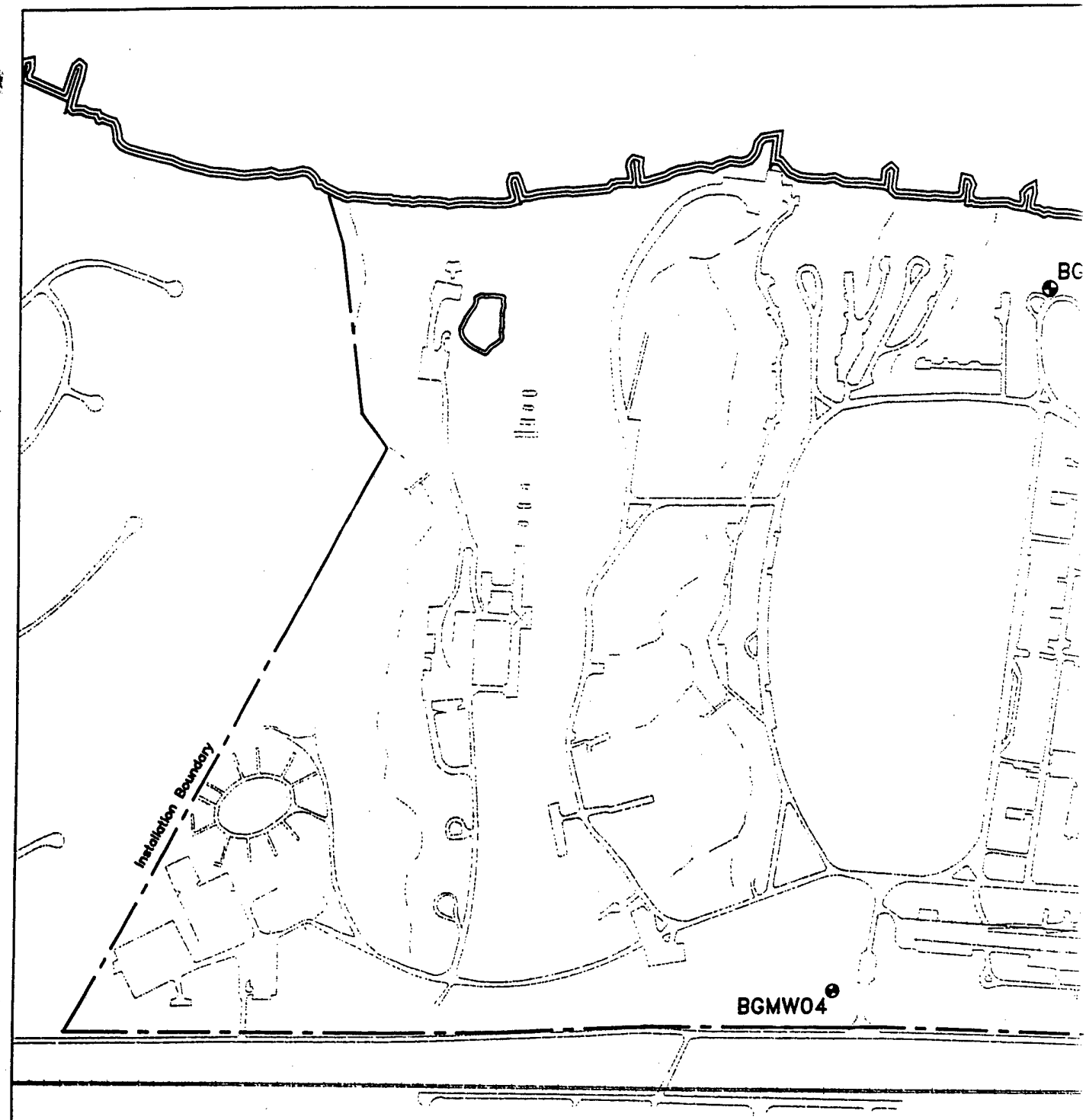
j, Virginia. Date of photography, 12/6/95.
quadrangle, Highland Park, Ill., 1963; photo revised 1972 & 1980.

Figure 5-6
Lumbriculus variegatus
Sediment Sampling Loc
Final RI/BRA for the Ravines a
Beach Area Study Areas of th
Surplus Operable Unit
Fort Sheridan, Illinois

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Sheridan, Illinois



● Background Monitoring Well Location

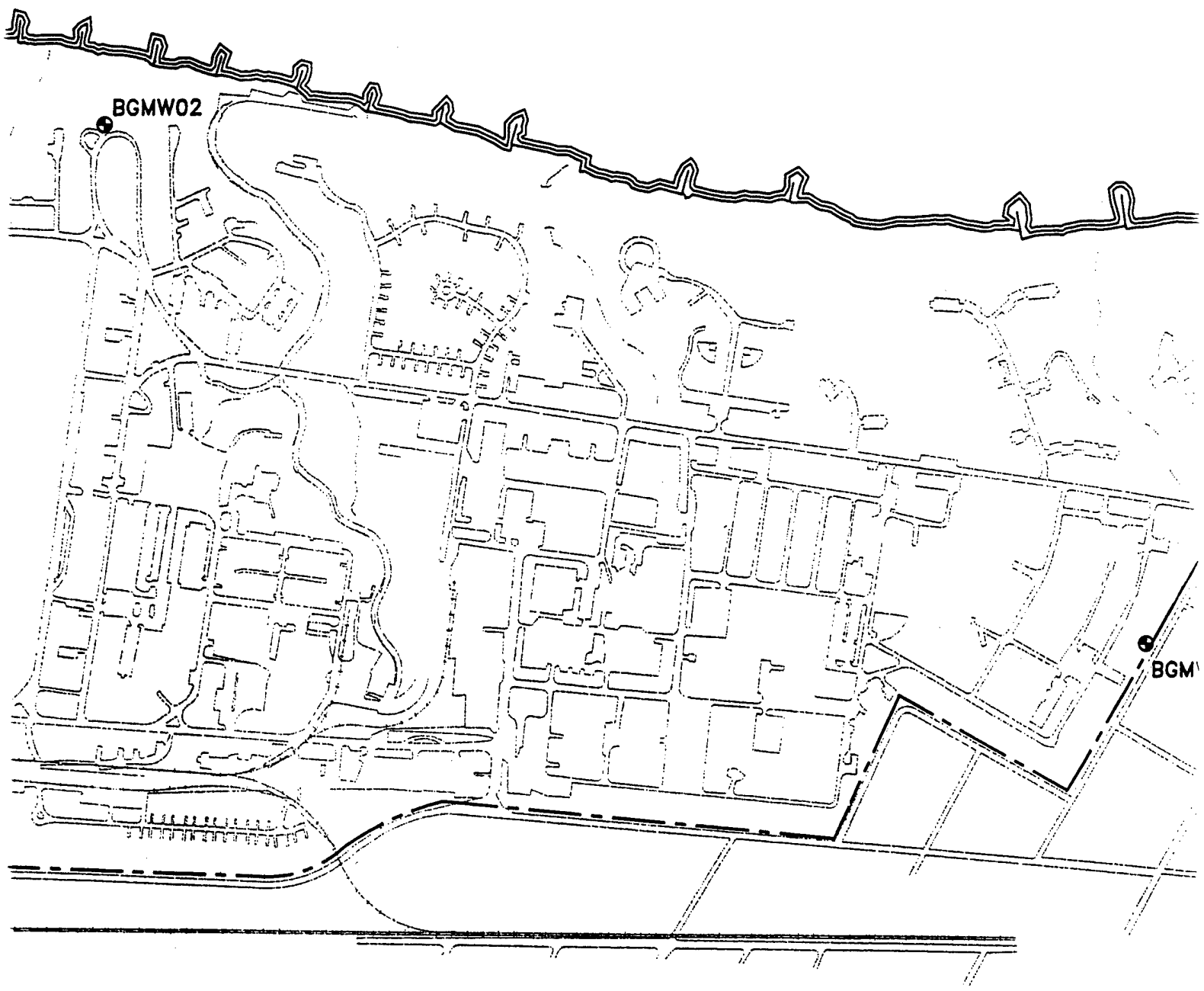
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Adapted from Official Post Map, Directorate of Engineering and Housing, Fort Sheridan, Illinois, January

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Figure 5-7
Background Groundwater Locations for Acute Toxici of Fathead Minnow
Final RI/BRA for the Ravines a Beach Area Study Areas of th Surplus Operable Unit
Fort Sheridan, Illinois

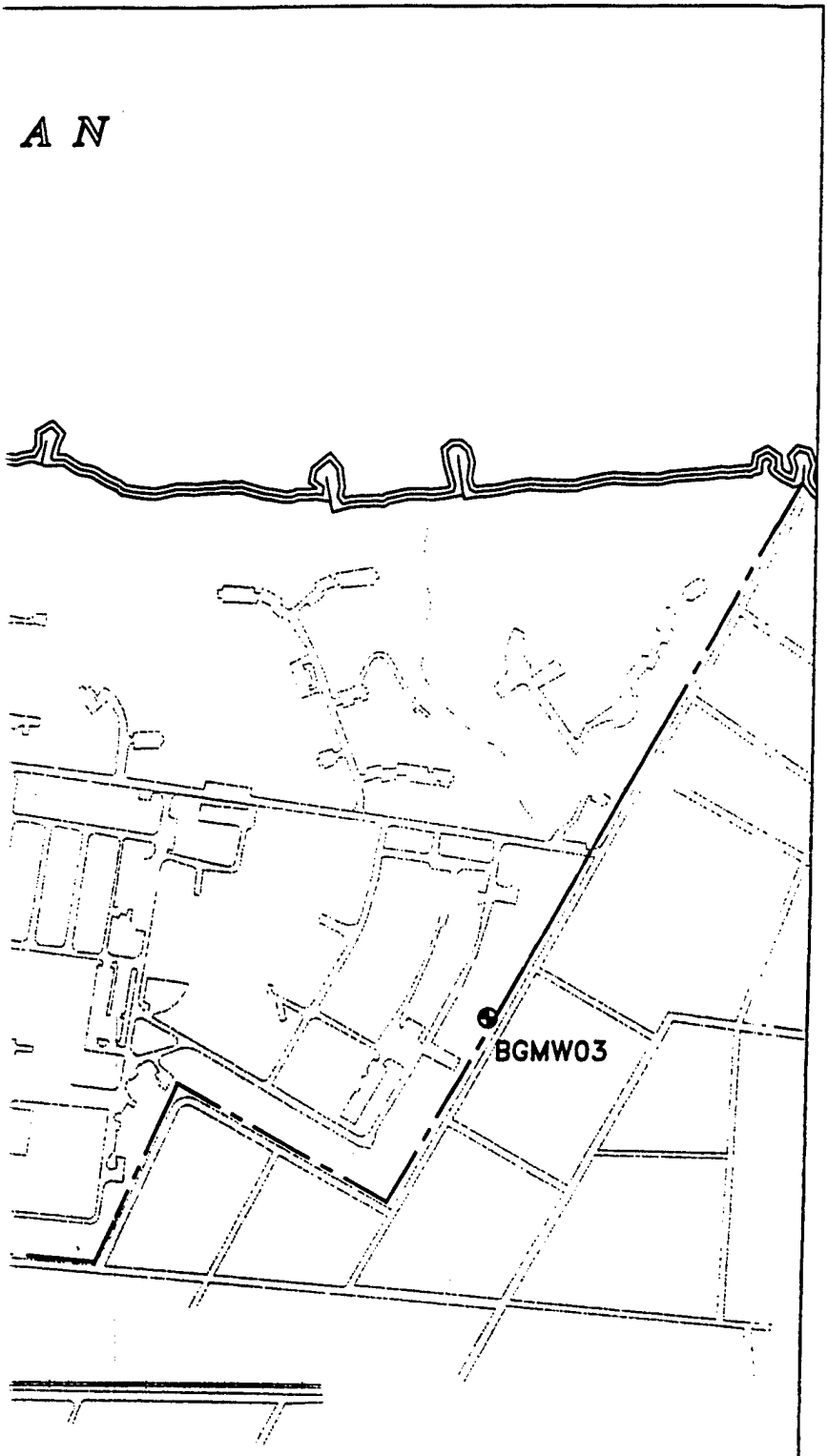


Figure 5-7
Background Groundwater Sampling Locations for Acute Toxicity Tests of Fathead Minnow
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois

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6.0 Data Evaluation/Nature and Extent

The purpose of this section is to evaluate the data presented in Section 5.0 to determine the nature and extent of affected environmental media at the ravines and Beach Area study areas. Given that more than 150 separate constituents were analyzed for at some of the study areas, and that, at most of the study areas, the majority of the constituents were reported as not detected, an exhaustive analysis of the presence or absence of each constituent is inefficient and in many cases provides an excess of irrelevant information that only serves to confuse the evaluation. Therefore, to facilitate the discussion and graphical presentation of the extent of affected environmental media, the following sections will focus on benzo(a)pyrene, total carcinogenic PAHs, total chlordane, p,p'-DDD, p,p'-DDT, arsenic, chromium, and lead. Total carcinogenic PAHs represents the sum of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. These constituents, plus the metals previously mentioned, tend to be the primary risk drivers from a risk assessment perspective. Additionally, the distribution of these constituents is generally representative of the distribution of the other detected constituents. The background comparison values and background data sets established for Fort Sheridan surface soils, groundwater, surface water, and sediment were previously presented in the Final Background Report (ESE, 1997).

In some instances, analysis for a given analyte was conducted by two methods [e.g., benzo(a)pyrene is analyzed by both the PAH and SVOC analysis methods]. In these instances, the following protocol was used in determining which detection (if any) was displayed in the detection tables. When a constituent was detected by both methods of analysis, the highest concentration detected is displayed. When a constituent was detected by one method of analysis, but not detected above its MDL by the other method, the detected concentration is displayed in the table. When a constituent was not detected above its MDL by either method of analysis, the MDL of the method with the lowest MDL was displayed in the table with a less than (<) symbol in front of it.

6.1 Janes Ravine

As previously mentioned in Subsection 5.2, the sediment Samples B117SD01, B117SD02, NKASD01, and NKASD02 were collected in the vicinity of B117 and B912, respectively, from the upper slope of Janes Ravine just beneath the outfall of pipes emptying into the ravine. The flow from these pipes is very sporadic. Therefore, as these "sediment" samples were collected from areas that more appropriately represent "surface soil" conditions than "sediment" conditions, these samples are evaluated as surface soil samples. The data evaluation/nature and extent for surface soil, sediment, and surface water at Janes Ravine are presented below.

6.1.1 Surface Soil

During the Phase II field effort, a total of four surface soil samples were collected from the upper slope of the south side of Janes Ravine. Inorganic and organic constituents detected above MDLs in Janes Ravine surface soil samples are presented in Tables 5-4 and 5-5, respectively. The surface soil sampling locations and concentrations of selected analytes [benzo(a)pyrene, total carcinogenic PAHs, arsenic, chromium, lead, and p,p'-DDD] detected in surface soil samples at Janes Ravine are depicted in Figure 6-1.

Arsenic, chromium, and lead were detected at concentrations ranging from 4.95 to 8.93 milligrams per kilogram (mg/kg) (highest at NKASD01); 15.8 to 22.4 mg/kg (highest at B117SD02); and 30.0 to 104 mg/kg (highest at B117SD01), respectively. Benzo(a)pyrene and total carcinogenic PAH concentrations ranged from non-detect (ND) to 0.25 mg/kg (highest at B117SD01) and ND to 1.204 mg/kg (highest at B117SD01), respectively. In addition, p,p'-DDT was detected at concentrations of 0.00448 and 0.00689 mg/kg in surface soil samples NKASD01 and NKASD02, respectively.

The arsenic and chromium concentrations in the Janes Ravine surface soil samples did not exceed their background comparison values (8.96 and 22.5 mg/kg, respectively). The lead concentration in surface soil Sample B117SD01 exceeded its background comparison value (56.7 mg/kg) by almost 2 times. The concentration of benzo(a)pyrene in each Janes Ravine surface soil sample was below its background comparison value (0.32 mg/kg). One of the carcinogenic PAHs [dibenzo(ah)anthracene] was detected at a concentration in surface soil Sample B117SD01 that exceeded its background comparison value (MDL of 0.033 mg/kg) by almost 3 times. The concentrations of p,p'-DDT detected in surface soil samples NKASD01 and NKASD02 were below the background comparison value for that compound (0.022 mg/kg).

6.1.2 Sediment

During the Phase I, II, and III field activities, eight sediment samples were collected from Janes Ravine. One of the Phase I sediment stations, C-0242, was resampled in Phase II because the Phase I organic data from this sample had significantly raised method detection limits. Only the Phase II data from sediment station C-0242 was used for evaluation at this sample station. Therefore, a total of seven sediment samples were evaluated from Janes Ravine. Inorganic and organic constituents detected above MDLs in Janes Ravine sediment samples are presented in Tables 5-3 and 5-4, respectively. The sediment sampling stations and concentrations of selected analytes [benzo(a)pyrene, total carcinogenic PAHs, arsenic, chromium, lead, and p,p'-DDD] detected in samples collected from these stations are depicted in Figure 6-1.

Arsenic, chromium, and lead were detected at concentrations ranging from 2.28 to 15.7 mg/kg (highest at C-0130); 3.82 to 8.50 mg/kg (highest at JRBSD03); and 7.02 to 42.8 mg/kg (highest at C-0242), respectively. Benzo(a)pyrene and total carcinogenic PAH concentrations ranged from ND to 0.36 mg/kg (highest at C-0242) and ND to 1.87 mg/kg (highest at C-0242), respectively. In addition, total chlordane, p,p'-DDD, and p,p'-DDT concentrations ranged from ND to 5.2 mg/kg (highest at C-0130); ND to 6.6 mg/kg (highest at C-0130); and ND to 5.9 mg/kg (highest at C-0130).

Although background comparison values have not been established for ravine sediments at Fort Sheridan, a sediment background data set was collected (ESE, 1997). Arsenic was detected in sediment Sample C-0130 at a concentration that exceeded the highest detected concentration in the background data set (14 mg/kg) by 120 percent. Chromium and lead were not detected in any of the Janes Ravine sediment samples at concentrations exceeding their highest concentration in the background data set (13 and 43 mg/kg for chromium and lead, respectively). Neither benzo(a)pyrene nor any of the individual PAHs that make up the total carcinogenic PAHs were detected in any of the Janes Ravine sediment samples at concentrations exceeding their highest concentration in the background data set. Pesticide concentrations in sediment samples exceeded the highest detection in the background data set for total chlordane (0.0524 mg/kg) at C-0130, C-0242, JRSD02, and JRBSD01 by up to 99 times; p,p'-DDD (0.26 mg/kg) at C-0130 by just over 25 times; and p,p'-DDT (0.0646 mg/kg) at C-0130, C-0242, JRSD02, and JRBSD01 by up to 91 times.

In addition to the site-specific background, constituents detected in the ravine sediments were compared to IEPA general guidance for classifying the levels of specific constituents in stream sediments (Kelly and Hite, 1984). The levels of constituents in stream sediments are classified as non-elevated, slightly elevated, elevated, highly elevated and extreme based on a statistical evaluation of a statewide data set. Based on this system, the maximum concentrations of detected constituents in the Janes Ravine sediments would be classified as follows: arsenic–elevated; chromium–non-elevated; lead–elevated; total chlordane–extreme; and p,p'-DDT–extreme. The maximum concentrations of detected constituents in the background sediment samples would be classified as follows: arsenic–elevated; chromium–non-elevated; lead–elevated; total chlordane–extreme; and p,p'-DDT–highly elevated.

6.1.3 Surface Water

During Phase I, II, and III activities, a total of nine surface water samples were collected from Janes Ravine. Inorganic (total and dissolved) and organic constituents detected above MDLs in Janes Ravine surface water samples are presented in Tables 5-5, 5-6, and 5-7, respectively. The surface water sampling stations and concentrations of selected analytes [benzo(a)pyrene, total carcinogenic PAHs, total arsenic, total chromium, total lead, and p,p'-DDD] detected in surface water samples collected in Janes Ravine are depicted in Figure 6-2.

Dissolved arsenic, total and dissolved chromium, benzo(a)pyrene, and total carcinogenic PAHs were not detected above their respective MDLs in the surface water samples. Total arsenic and lead concentrations ranged from ND to 0.00672 mg/L (highest at C-0242); and ND to 0.0065 mg/L (highest at JRBSW01), respectively. Dissolved lead concentrations ranged from ND to 0.0041 mg/L (highest at B117SW01). In addition, p,p'-DDD and p,p'-DDT concentrations ranged from ND to 0.0000783 mg/L (highest at C-0242) and ND to 0.000105 mg/L (highest at C-0242). The detection of acetone in surface water Sample B117SW02 is likely related to laboratory contamination as discussed previously in Section 4.1.

Although background comparison values have not been established for surface water at Fort Sheridan, a surface water background data set was collected (ESE, 1997). Total arsenic was detected in Sample C-0242 at a concentration that exceeded background by almost 3 times. Chromium (total and dissolved) was not detected in any of the Janes Ravine surface water samples at concentrations exceeding the highest detected concentration in the background data set (MDL in each case). Total lead was detected at concentrations exceeding the highest detected concentration in the background data set (MDL) in surface water Samples C-0031, C-0130, B117SW01, JRBSW01, and JRBSW02 by up to 3 times. Dissolved lead was detected at a concentration that exceeded the highest detected concentration in the background data set (0.0026 mg/L) by almost 2 times in surface water Sample B117SW01. Benzo(a)pyrene and total carcinogenic PAHs were not detected in any of the Janes Ravine surface water samples. Pesticide concentrations in surface water samples C-0242 and JRSW02 exceeded the highest detection in the background data set for p,p'-DDD (0.000011 mg/L) by up to 7 times and p,p'-DDT (MDL of 0.000007 mg/L) by up to 15 times.

6.2 Hutchinson Ravine

Each of the sediment samples from Hutchinson Ravine was collected from the stream bed and, thus, will be treated as sediment. The evaluation of the Hutchinson Ravine sediment and surface water samples is presented below.

6.2.1 Sediment

During Phase I, II, and III activities, a total of 13 (plus three duplicates) sediment samples were collected from Hutchinson Ravine. Inorganic and organic constituents detected above MDLs in Hutchinson Ravine sediment samples are presented in Tables 5-9 and 5-10, respectively. The sediment sampling stations and concentrations of selected analytes [benzo(a)pyrene, total carcinogenic PAHs, arsenic, chromium, lead, and p,p'-DDD] detected in sediment samples at the Hutchinson Ravine are depicted in Figure 6-3.

Arsenic, chromium, and lead were detected at concentrations ranging from 3.92 to 7.35 mg/kg (highest at HRBSD04); 4.22 to 15.0 mg/kg (highest at HRBSD03); and 12.0 to 67.1 mg/kg (highest at

LF2SD02(duplicate), respectively. Benzo(a)pyrene and total carcinogenic PAH concentrations ranged from ND to 8.0 mg/kg (highest at HRBSD03) and ND to 45 mg/kg (highest at HRBSD03), respectively. In addition, total chlordane, p,p'-DDD, and p,p'-DDT concentrations ranged from ND to 0.93 mg/kg (highest at HRBSD03); ND to 10.0 mg/kg (highest at HRBSD03); and ND to 0.0203 mg/kg (highest at HRSD01).

Although background comparison values have not been established for ravine sediments at Fort Sheridan, a sediment background data set was collected (ESE, 1997). Arsenic was not detected in any of the Hutchinson Ravine sediment samples at concentrations exceeding the highest detected concentration in the background data set (14.0 mg/kg). Chromium was detected at a concentration exceeding the highest detected concentration in the background data set (13.0 mg/kg) by approximately 120 percent in sediment sample HRBSD03. Lead was detected at concentrations exceeding the highest detected concentration in the background data set (43.0 mg/kg) by almost 2 times in sediment samples LF2SD02(duplicate), HRBSD03, and HRBSD05(primary and duplicate). Benzo(a)pyrene was detected at concentrations exceeding the highest detected concentration in the background data set (2.0 mg/kg) by as much as 4 times in sediment samples HRBSD02 and HRBSD03. Total carcinogenic PAHs were detected at concentrations exceeding the highest detected concentration of one or more constituents in the background data set by as much as 5 times in sediment samples HRSD02, LF2SD02(duplicate), HRBSD02, and HRBSD03. Pesticide concentrations in sediment samples exceeded the highest detection in the background data set for total chlordane (0.0524 mg/kg) by as much as 17 times at HRSD01, HRBSD03, and HRBSD04; p,p'-DDD (0.19 mg/kg) by as much as 52 times at HRSD01, HRSD03, LF2SD02(duplicate), HRBSD01, and HRBSD03; and p,p'-DDT (0.0646 mg/kg) by as much as 14 times at HRSD01, HRSD02(primary and duplicate), HRSD03, LF2SD02(primary and duplicate), HRBSD01, HRBSD03 and HRBSD05.

In addition to the site-specific background data, constituents detected in the ravine sediments were compared to IEPA guidance for classifying the levels of specific constituents in stream sediments (Kelly and Hite, 1984). Based on this system, the maximum concentrations of detected metals in the Hutchinson Ravine sediments would be classified as follows: arsenic - non-elevated; chromium - non-elevated; and lead - highly elevated. The maximum concentrations of total chlordane and p,p'-DDT in Hutchinson Ravine sediments would be classified as extreme and highly elevated, respectively.

6.2.2 Surface Water

During Phase I, II, and III activities, a total of 11 (plus three duplicates) surface water samples were collected from Hutchinson Ravine. During the collection of surface water Samples LF2SW01 and LF2SW02 (11/6-7/95), the analysis for PAHs was accidentally omitted. The samples for PAH analysis at LF2SW01 and LF2SW02 were collected on 11/15/95. Inorganic (total and dissolved) and organic constituents detected above MDLs in Hutchinson Ravine surface water samples are presented in

Tables 5-1, 5-2, and 5-3, respectively. The surface water sampling stations and concentrations of selected analytes [benzo(a)pyrene, total carcinogenic PAHs, total arsenic, total chromium, total lead, and p,p'-DDD] detected in surface water samples collected from Hutchinson Ravine are depicted in Figure 6-4.

Dissolved arsenic, total and dissolved chromium, and dissolved lead were not detected above MDLs in the surface water samples. Total arsenic and lead concentrations ranged from ND to 0.0027 mg/L (detection at LF2SW02); and ND to 0.0077 mg/L (highest at LF2SW02), respectively. Benzo(a)pyrene and total carcinogenic PAH concentrations ranged from ND to 0.000189 mg/L (highest at HRSW03) and ND to 0.0002015 mg/L (highest at HRSW03), respectively. In addition, p,p'-DDD and p,p'-DDT concentrations ranged from ND to 0.00011 mg/L (highest at HRSW01 and HRSW03) and ND to 0.00016 mg/L (highest at HRSW03 duplicate), respectively. The detections of acetone and chloromethane in surface water Sample HRSW02 are likely related to laboratory contamination as discussed previously in Section 4.1.

Although background comparison values have not been established for surface water at Fort Sheridan, a surface water background data set was collected (ESE, 1997). Arsenic (total and dissolved), chromium (total and dissolved), and lead (dissolved only) were not detected in any of the Hutchinson Ravine surface water samples at concentrations exceeding their highest detected respective concentration in the background data set. Total lead was detected at concentrations exceeding the highest detected concentration in the background data set (MDL) by as much as 4 times in surface water samples LF2SW01(duplicate), LF2SW02, HRBSW03, HRBSW04, and HRBSW05 (primary and duplicate). Benzo(a)pyrene and one total carcinogenic PAHs in surface water sample HRSW03 (primary and duplicate) were above their respective highest background data set concentrations (MDL). Pesticide concentrations in surface water samples exceeded the highest detection in the background data set for p,p'-DDD (0.000011 mg/L) at HRSW01 through HRSW03, and HRBSW01 through HRBSW03 by as much as 10 times and p,p'-DDT (MDL) at HRSW02, HRSW03 (primary and duplicate), HRBSW03, and HRBSW05 by as much as 23 times.

6.3 Beach Area

As previously mentioned in Subsection 5.3, "soil" samples collected from less than 7.5 ft-bgs at the Beach Area are considered to be "sediment" samples. The data evaluation/nature and extent for sediment and surface water at the Beach Area is presented below.

6.3.1 Sediment

During Phase I, II, and III field activities, a total of 19 sediment samples were collected from the Beach Area. Inorganic and organic constituents detected in Beach Area sediment samples are presented in Tables 5-15 and 5-16, respectively. The sediment sampling locations and concentrations of selected

analytes [benzo(a)pyrene, total carcinogenic PAHs, arsenic, chromium, lead and p,p'-DDD] detected in sediment samples at the Beach Area are depicted in Figure 6-5.

Arsenic, chromium, and lead were detected at concentrations ranging from 2.79 to 13.1 mg/kg (highest at OD-1); 1.75 to 4.68 mg/kg (highest at JRBSD06); and 3.59 to 31.4 mg/kg [highest at LF2SB05D(6')], respectively. Benzo(a)pyrene and total carcinogenic PAH concentrations ranged from ND to 0.00721 mg/kg [highest at FTRSB01(0.5')] and ND to 0.5 mg/kg [highest at FTRSB05(6')], respectively. 1,3-Dinitrobenzene was detected in sediment Sample TRSD02 at a concentration of 0.297 mg/kg. In addition, total chlordane, p,p'-DDD, and p,p'-DDT concentrations ranged from ND to 0.118 mg/kg (detection at OD-1); ND to 0.43 mg/kg (highest at OD-1); and ND to 0.098 mg/kg (detection at OD-1).

Background comparison values have not been established for beach sediments at Fort Sheridan. However, a background beach sediment sample was collected during Phase III field activities in support of the sediment toxicity testing program (BLDBSD01). Arsenic was detected in each of the Beach Area sediment samples at concentrations exceeding the background sample concentration (2.26 mg/kg) by up to almost 6 times (mean of 2 times). Chromium was detected in sediment samples FTRSB01(0.5 and 5'), FTRSB02(0.5 ft-bgs), TRSD01, TRSD02, and JRBSD06 at concentrations exceeding the background sample concentration (2.7 mg/kg) by up to almost 2 times. Lead was detected in every sample except C-0690(0'), LF2SB06D(0'), LF2SB07D(6'), LF2SB08D(4'), and TRSD01 at concentrations exceeding the background sample concentration (3.72 mg/kg) by up to 8 times. Benzo(a)pyrene and total carcinogenic PAHs were not detected in the background sediment sample above MDLs (0.14 to 0.16 mg/kg for each constituent). The detected concentrations of benzo(a)pyrene in the Beach Area sediment samples were below the MDLs of the background sample. Total carcinogenic PAHs were detected in one sediment sample (LF2SB05D) at a concentration exceeding the MDLs of the background sample. Pesticide concentrations in sediment samples exceeded the concentration detected in the background sample for total chlordane (MDL of 0.02 mg/kg) at OD-1 by almost 6 times; p,p'-DDD (0.00438 mg/kg) at OD-1 and JRBSD06 by 100 and 2 times, respectively; and p,p'-DDT (MDL of 0.003 mg/kg) at OD-1 by almost 33 times.

In addition to the site-specific background data, the IEPA provides general guidance for classifying the levels of specific constituents in lake sediment (Mitzelfelt, 1996). The levels of constituents in lake sediments are classified as low, normal, elevated, and highly elevated based on a statistical evaluation of a statewide data set. Based on this system, the maximum concentrations of detected constituents in the Beach Area sediment samples would be classified as follows: arsenic–normal; chromium–low; lead–normal; total chlordane–highly elevated; and p,p'-DDT–elevated. The concentrations of constituents in the background sediment sample (BLDBSD01) would be classified as follows: arsenic–low; chromium–low; lead–low; total chlordane–normal; and p,p'-DDT–normal.

6.3.2 Surface Water

During Phase I activities, a total of four surface water samples were collected from outfalls to the Beach Area. Total inorganic and organic constituents detected above MDLs in Beach Area surface water samples are presented in Table 5-17. As previously indicated in Subsection 5.3.2, filtered surface water samples were not collected from the Beach Area.

Total arsenic, chromium, benzo(a)pyrene, and total carcinogenic PAHs were not detected above MDLs in the surface water samples. Total lead concentrations ranged from ND to 0.00304 mg/L (highest at C-0690). The only detection of organics in the Beach Area surface water samples was of chloroform in surface water Sample C-0692. The chloroform detection is likely related to laboratory contamination as discussed previously in Section 4.1.

Background comparison values have not been established for surface water at Fort Sheridan. However, a surface water background data set was collected for Fort Sheridan (ESE, 1997). As previously mentioned, arsenic, chromium, benzo(a)pyrene, and total carcinogenic PAHs were not detected above MDLs in any of the Beach Area surface water samples. Total lead was detected in surface water Sample C-0690 at a concentration exceeding the highest detected concentration in the background data set (MDL of 0.002 mg/L) by almost 2 times. It should be noted that the background surface water values referenced above are for ravines, not Lake Michigan water. Comparison of the beach surface water samples to the ravine surface water background is not entirely appropriate. However, for a qualitative indicator, it is the best available measure.

6.3.3 Groundwater

During Phase II field activities, two rounds of groundwater samples were collected from each monitoring well at the Beach Area and LF2/SARN, except for monitoring well LF2MW07D. Monitoring well LF2MW07D was sampled during the first round of groundwater sampling. However, as mentioned previously, it was discovered during the second round of groundwater sampling that ice along the Lake Michigan shoreline had destroyed this monitoring well. Round 1 groundwater samples were collected from November 1995 through February 1996 and Round 2 groundwater samples were collected from April 1996 through June 1996. Inorganic (total and dissolved) and organic constituent concentrations above MDLs in the Beach Area and LF2/SARN groundwater samples are presented in Tables 5-18, 5-19, and 5-20, respectively. The monitoring well locations and concentrations of selected analytes [benzo(a)pyrene, total carcinogenic PAHs, total arsenic, total chromium, total lead, and p,p'-DDD] detected in groundwater samples collected from the Beach Area and LF2/SARN are depicted in Figure 6-6.

Total arsenic, chromium, and lead concentrations ranged from ND to 0.0415 mg/L (highest in Round 1 from LF2MW09D); ND to 0.266 mg/L (highest in Round 1 from LF2MW09D); and ND to 0.0787 mg/L

(highest in Round 2 from LF2MW04D), respectively. Dissolved arsenic and lead concentrations ranged from ND to 0.0025 mg/L (only detection in Round 1 from LF2MW09D) and ND to 0.0041 mg/L (highest in Round 1 from LF2MW01), respectively. Chromium was not detected in either of the two rounds of filtered groundwater samples. Benzo(a)pyrene and total carcinogenic PAH concentrations ranged from ND to 0.0000764 mg/L (highest in Round 1 duplicate from LF2MW05S) and ND to 0.0002712 mg/L (highest in Round 1 duplicate from LF2MW05S), respectively. The p,p'-DDD and p,p'-DDT concentrations ranged from ND to 0.000024 mg/L (highest in Round 2 from LF2MW07S) and ND to 0.000025 mg/L (only detection in Round 2 from LF2MW07S), respectively. In addition, 2,4-DNT (0.000268 mg/L) and 4-amino-2,6-dinitrotoluene (0.000177 mg/L) were detected in Round 1 groundwater samples collected from monitoring wells LF2MW08D and LF2MW11, respectively. Neither of these constituents were detected in Round 2 samples. The detection of acetone in the Round 1 groundwater sample collected from LF2MW08D is likely due to laboratory contamination (see Section 4.1).

The concentration of total arsenic exceeded its background comparison value (0.0046 mg/L) in Round 1 at LF2MW02, LF2MW04S, LF2MW05S, LF2MW06S, LF2MW07D, LF2MW09S, LF2MW06D, LF2MW07S, and LF2MW09D and in Round 2 at LF2MW01, LF2MW04D, LF2MW05D, LF2MW06D, LF2MW07S, LF2MW08S, and LF2MW09D by up to 9 times. The concentration of total chromium exceeded its background comparison value (MDL of 0.01 mg/L) in Round 1 at LF2MW01, LF2MW02, LF2MW04S, LF2MW04D, LF2MW05S, LF2MW06S, LF2MW06D, LF2MW07S, LF2MW07D, LF2MW08D, LF2MW09S, and LF2MW09D and in Round 2 at LF2MW04D, LF2MW05D, LF2MW06D, LF2MW08D, and LF2MW09D by as much as 26 times. The concentration of total lead exceeded its background comparison value (0.00719 mg/L) at LF2MW02(Round 1), LF2MW04S, LF2MW05S, LF2MW06S, LF2MW06D, LF2MW07S, LF2MW07D, LF2MW09S, LF2MW09D LF2MW10, and in Round 2 at LF2MW01, LF2MW04D, LF2MW05D, LF2MW06D, LF2MW07S, LF2MW08D, and LF2MW09D by up to 13 times. The dissolved groundwater data for arsenic, chromium, and lead from the same periods show noticeably lower concentrations detected. In each case, the dissolved arsenic, chromium (not detected above MDLs), and lead concentrations were below their respective background concentrations.

Benzo(a)pyrene and/or total carcinogenic PAHs (MDLs for all constituents) were detected in groundwater samples collected at LF2MW04S(Rounds 1 and 2), LF2MW05S(Rounds 1 and 2), LF2MW06S(Round 1), LF2MW07S(Rounds 1 and 2), and LF2MW07D(Round 1) by up to 4 times their respective background comparison values. Pesticide concentrations in groundwater samples exceeded their background comparison values for p,p'-DDD (MDL of 0.000005 mg/L) at LF2MW06S(Round 1) and LF2MW07S(Rounds 1 and 2) by almost 5 times and p,p'-DDT (MDL of 0.000007 mg/L) at LF2MW07S(Round 2) by almost 4 times. In addition, the 2,4-DNT and 4-amino-2,6-dinitrotoluene detected in Round 1 groundwater samples collected from monitoring wells LF2MW08D and LF2MW11, respectively, exceeded their background comparison values (MDLs of 0.00006 and 0.0001 mg/L, respectively) by almost 5 and 2 times, respectively.

Benzo(a)pyrene and total carcinogenic PAHs were only detected in the groundwater samples collected from the Lake Michigan beach monitoring wells (downgradient of LF2/SARN). There were no other definitive trends for the analytes detected in the Beach Area and LF2/SARN groundwater samples as metals and pesticides were detected at similar concentrations in wells both upgradient and downgradient of LF2/SARN during both rounds of sampling.

6.4 *L. variegatus* Tissue

L. variegatus was cultured in both ravine and beach sediment samples collected from Fort Sheridan. Constituent concentrations above MDLs in *L. variegatus* tissue samples are presented in Tables 5-22 and 5-23.

6.4.1 Ravine Sediment Tissue

The concentrations of arsenic in the *L. variegatus* tissue samples from the Janes and Hutchinson Ravine sediment samples are similar to each other as well as to the concentrations in the background Janes Ravine sediment sample (see Table 5-20). The concentration of chromium in the three samples is quite variable (JRBSD01 at 0.217 mg/kg; HRBSD01 at <0.049 mg/kg; JRBSD04 at 0.102 mg/kg). The concentration of lead in the Janes and Hutchinson Ravine sediment tissue samples are similar (JRBSD01 at 0.376 mg/kg; HRBSD01 at 0.327 mg/kg), and both are higher than the background Janes Ravine sediment tissue sample (JRBSD04 at 0.252 mg/kg). Concentrations of arsenic, chromium, and lead were also detected in the laboratory control sediment tissue sample. However, the concentrations in the background and ravine sediment tissue samples were generally slightly higher, with the exception of chromium in Sample HRBSD01.

With the exception of gamma-chlordane, the concentrations of pesticides in the ravine sediment tissue samples are higher than the concentrations in the reference tissue sample. The greatest difference in concentration between each of the ravine sediment tissue samples, as well as the reference sediment tissue sample, is for p,p'-DDD and p,p'-DDE. The concentration of p,p'-DDD in the Janes and Hutchinson Ravine sediment tissue samples is 34.1 mg'/kg and 96.1 mg/kg, respectively, compared to the reference sediment tissue sample concentration of 13.7 mg/kg. The concentration of p,p'-DDE in the Janes and Hutchinson Ravine sediment tissue samples is 77.7 mg/kg and 385 mg/kg, respectively, compared to the reference sediment tissue sample concentration of 16.7 mg/kg. These two pesticides are the only pesticides with concentrations higher than their corresponding concentrations in the control sediment tissue sample.

6.4.2 Beach Sediment Tissue

The concentrations of arsenic, chromium, and lead in the *L. variegatus* tissue samples from the Janes and Hutchinson Ravines beach sediment samples are not only similar to each other but are also similar to the concentrations of these constituents in the Boles Loop Drain reference sediment sample (see Table 5-15).

Concentrations of arsenic, chromium, and lead were also detected in the laboratory control sediment tissue sample. However, the concentrations in the reference and ravine sediment tissue samples were generally slightly higher.

The pattern described above for the inorganics is repeated for the pesticides aldrin, alpha-chlordane, gamma-chlordane, p,p'-DDE, and p,p'-DDT. The concentration of p,p'-DDD is higher in the Beach Area sediment tissue samples (JRBSD06 at 19.2 mg/kg; HRBSD06 at 64.1 mg/kg) than in the reference sediment tissue sample (BLDBSD01 at 16.3 mg/kg). In each instance, the concentration of p,p'-DDD is higher in the Beach Area sediment tissue samples than in the control sediment tissue sample (3.04 mg/kg).

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Sediment Analytical Results

ND	= Arsenic
ND	= Chromium
ND	= Lead
ND	= Benzo(a)pyrene
ND	= Total Carcinogenic PAHs
ND	= P,P'-DDD

ND Not detected at or above detection limit
NA Not Analyzed

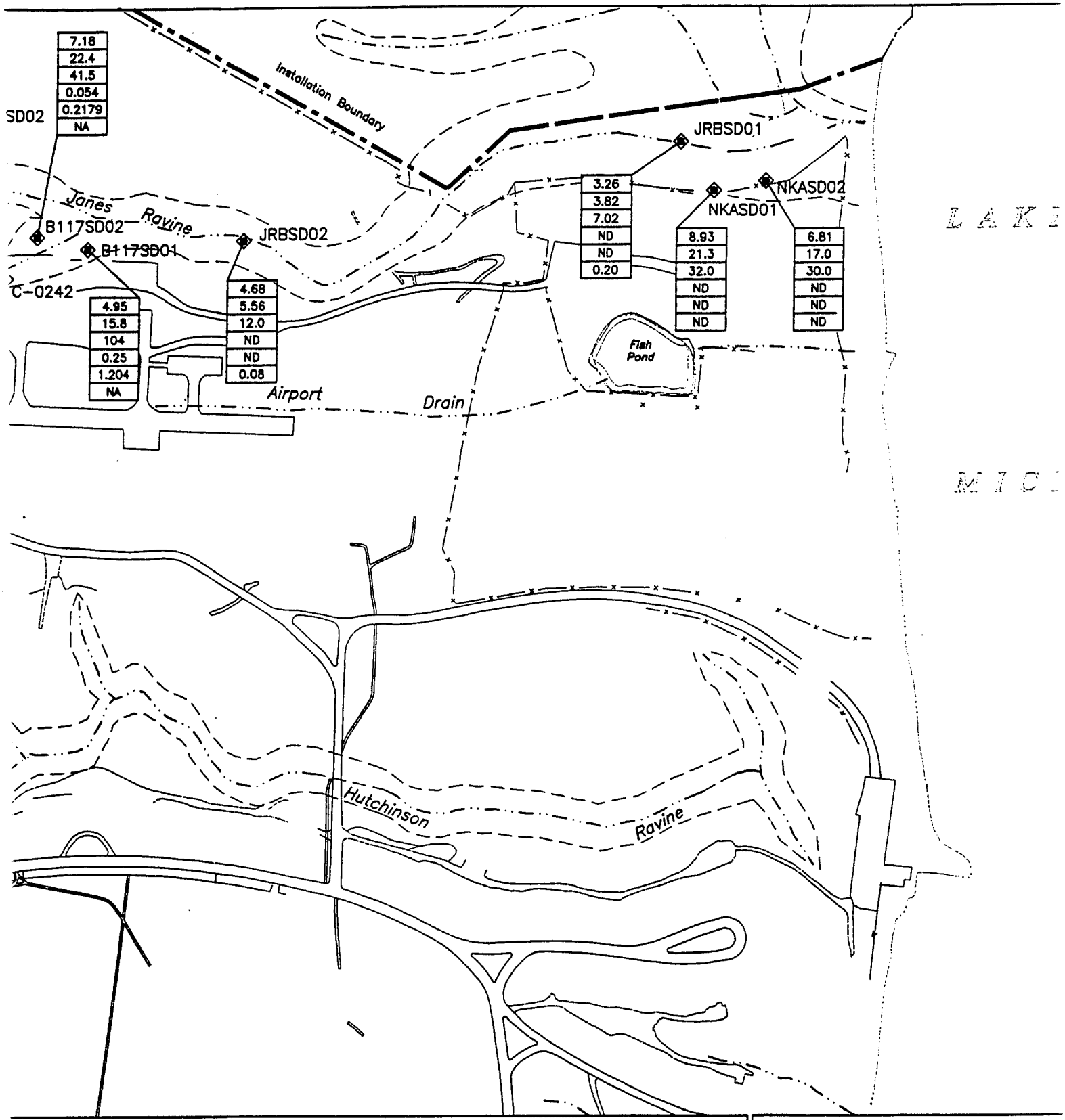
All Concentrations in Milligrams per Kilogram (

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Revised JCF 03/10/98

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Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photo



above detection limit

rams per Kilogram (mg/Kg)

Virginia. Date of photography, 12/6/95.

◆ Sediment Sample Location

0 350

feet

Figure 6-1
Surface Soil and Sedir
Analytical Results for J
Final RI/BRA for the Ravines a
Beach Area Study Areas of th
Surplus Operable Unit
Fort Sheridan, Illinois

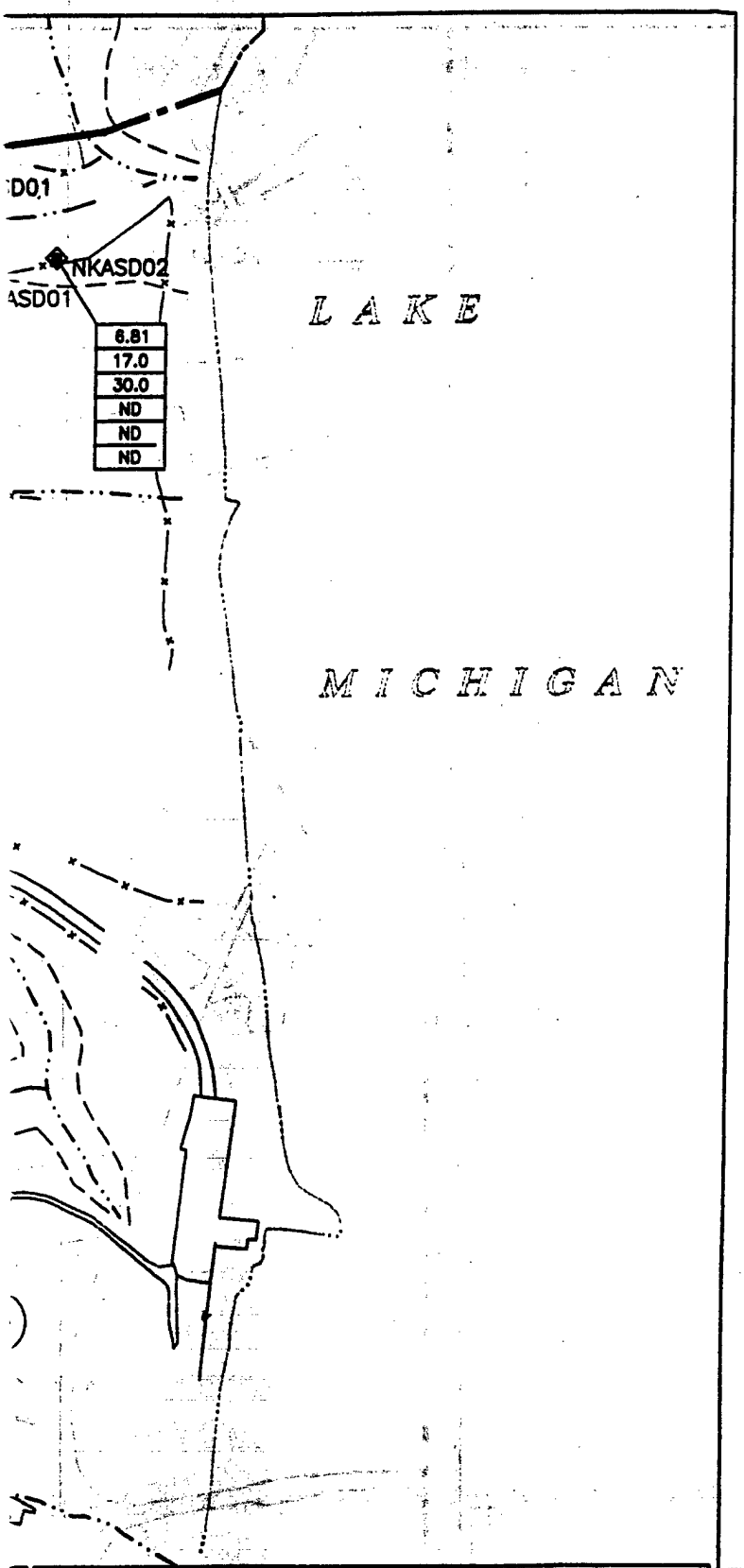
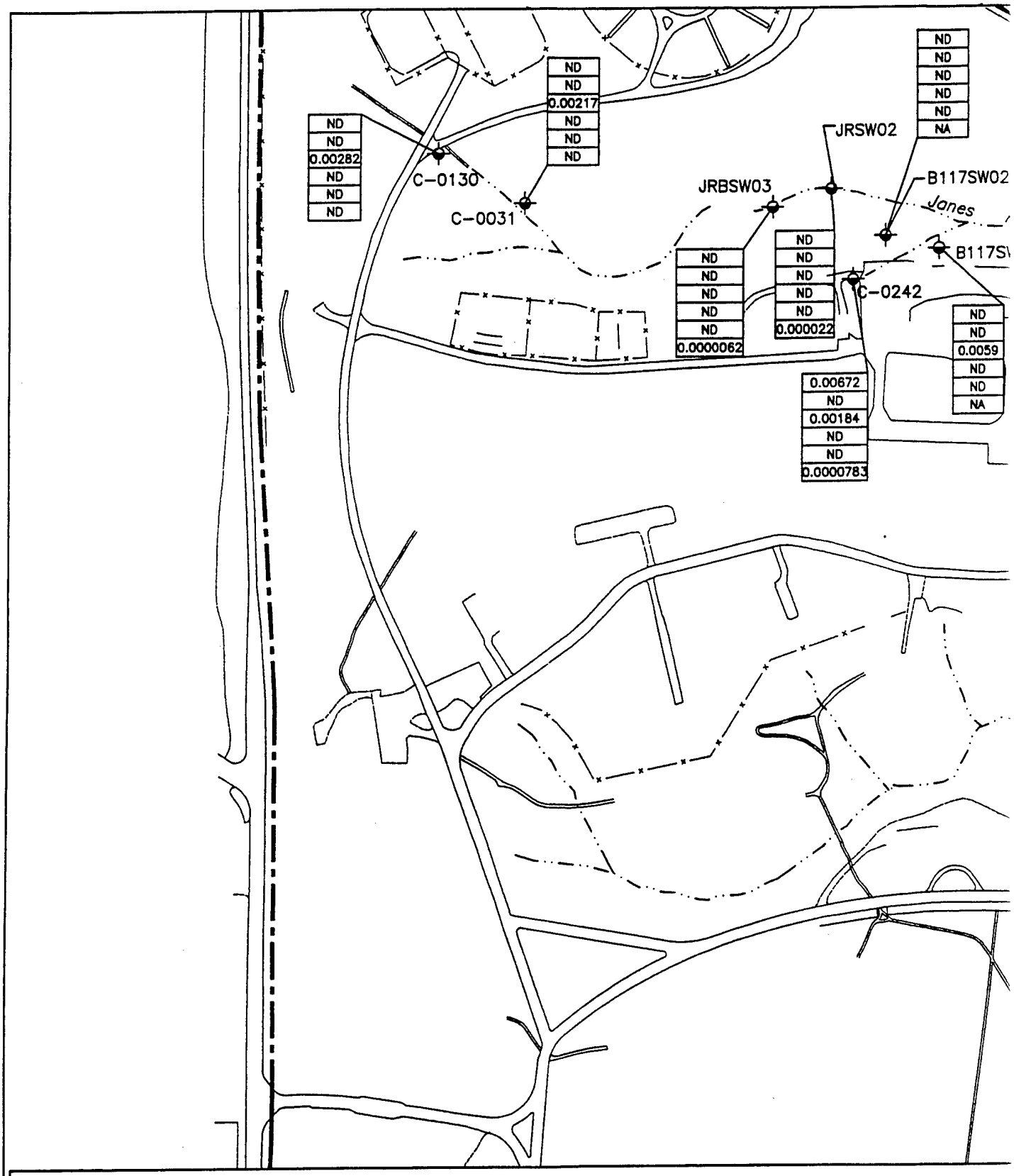


Figure 6-1
Surface Soil and Sediment Analytical Results for Janes Ravine
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois

(3)



Surface Water Analytical Results

ND	= Arsenic
ND	= Chromium
ND	= Lead
ND	= Benzo(a)pyrene
ND	= Total Carcinogenic PAHs
ND	= P,P'-DDD

ND Not detected at or above detection lim

NA Not Analyzed

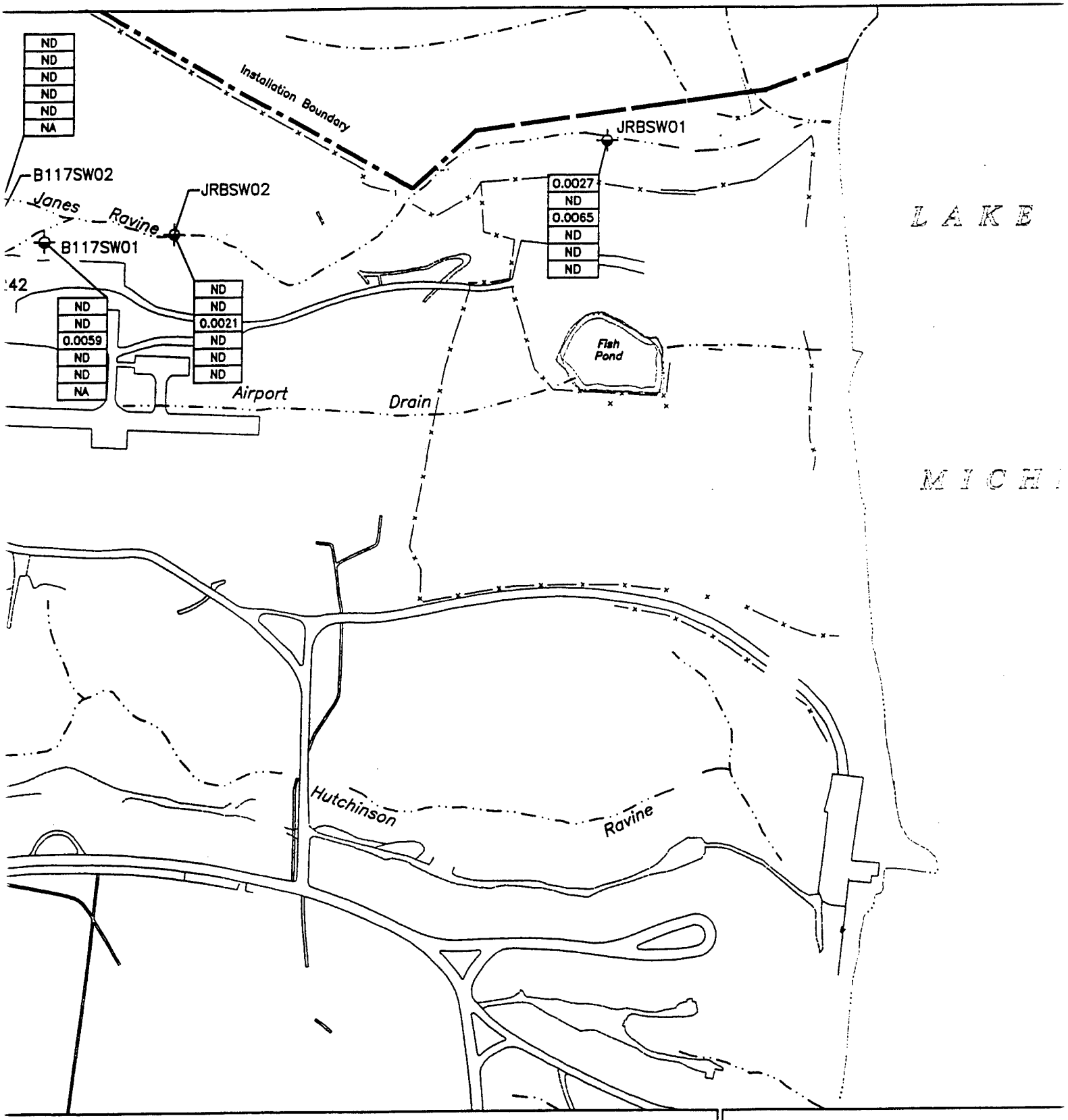
All Concentrations in Milligrams per Liter (m

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DVL 01/05/95
Revised JCF 03/10/98

490-2087
~FSOUJRSW

Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of ph



e detection limit

s per Liter (mg/L)

ginia. Date of photography, 12/6/95.

Surface Water Sample Location

0 350

feet

Figure 6-2
Surface Water Analytical for Janes Ravine

Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

Fort Sheridan, Illinois

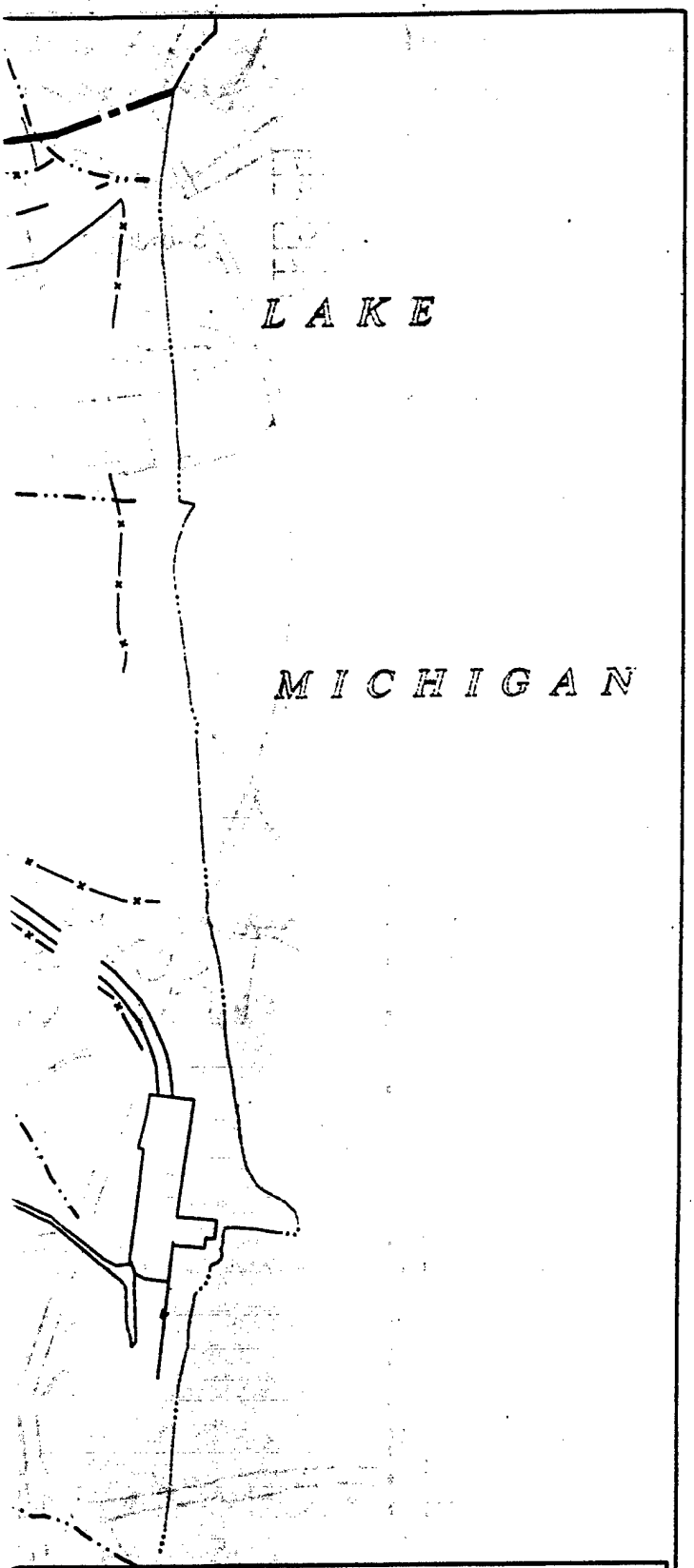
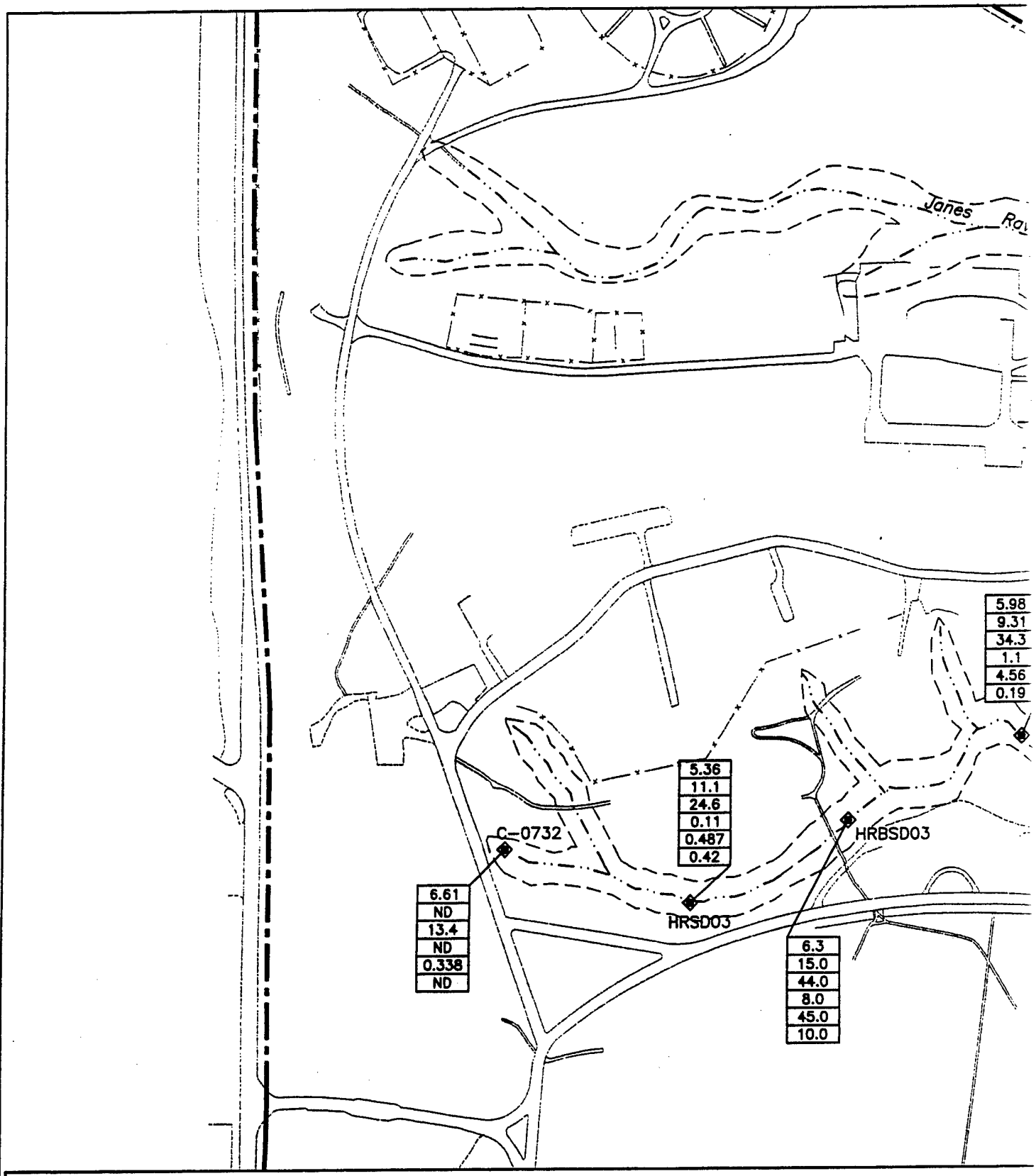


Figure 6-2
Surface Water Analytical Results for Janes Ravine

Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit

Fort Sheridan, Illinois



Sediment Analytical Results

ND	= Arsenic
ND	= Chromium
ND	= Lead
ND	= Benzo(a)pyrene
ND	= Total Carcinogenic PAHs
ND	= P,P'-DDD

ND Not detected at or above detection limit
NA Not Analyzed

Highest Detected Concentration in Sediment at Each Location (one or more samples)

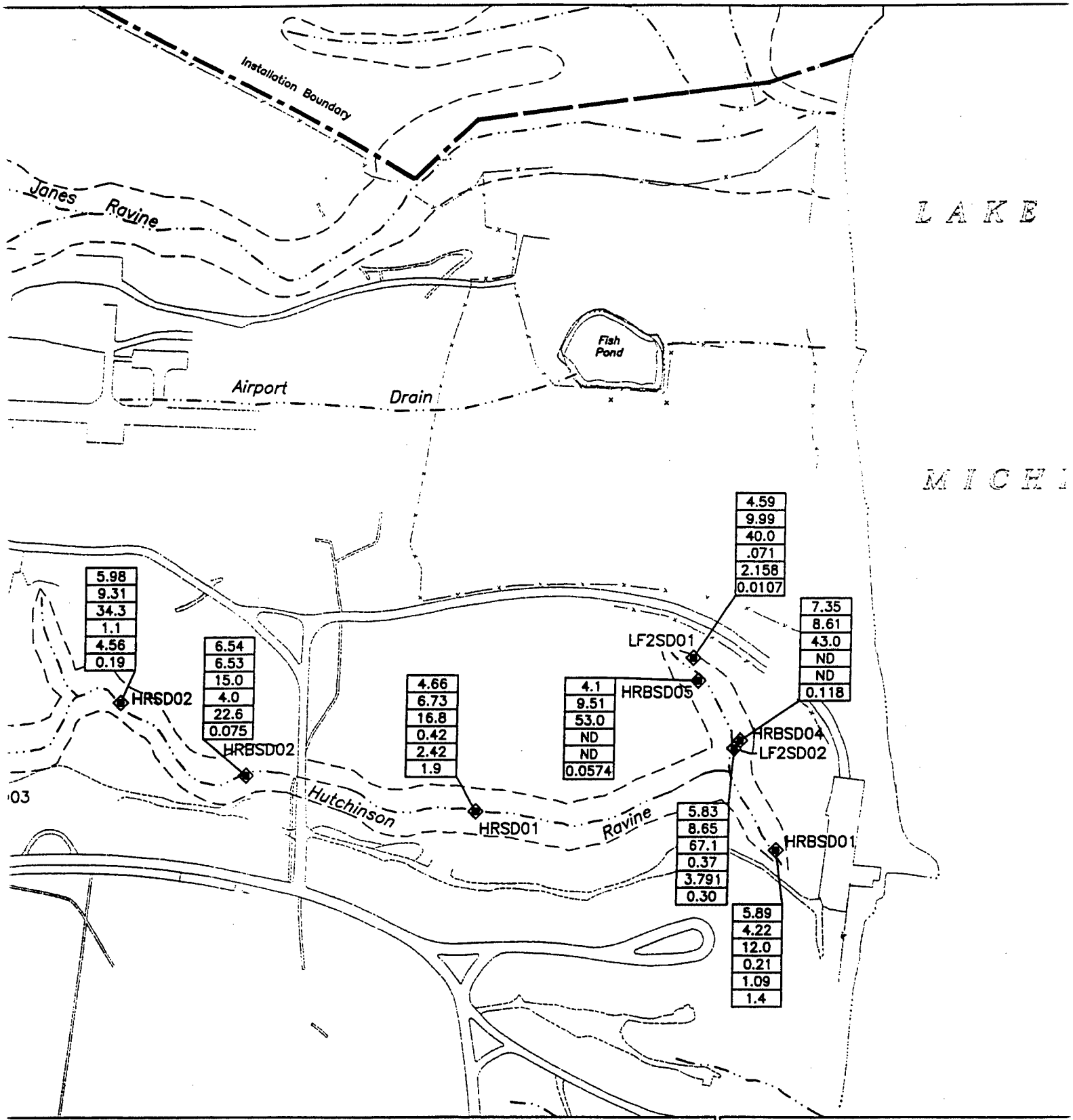
All Concentrations in Milligrams per Kilogram (m

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Revised JCF 03/10/98

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~FSOUHRSD

Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photogr



detection limit

in Sediment
samples)

per Kilogram (mg/Kg)

ia. Date of photography, 12/6/95.

◆ Sediment Sample Location

0 350

feet

Figure 6-3
Sediment Analytical Resul for Hutchinson Ravine
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois

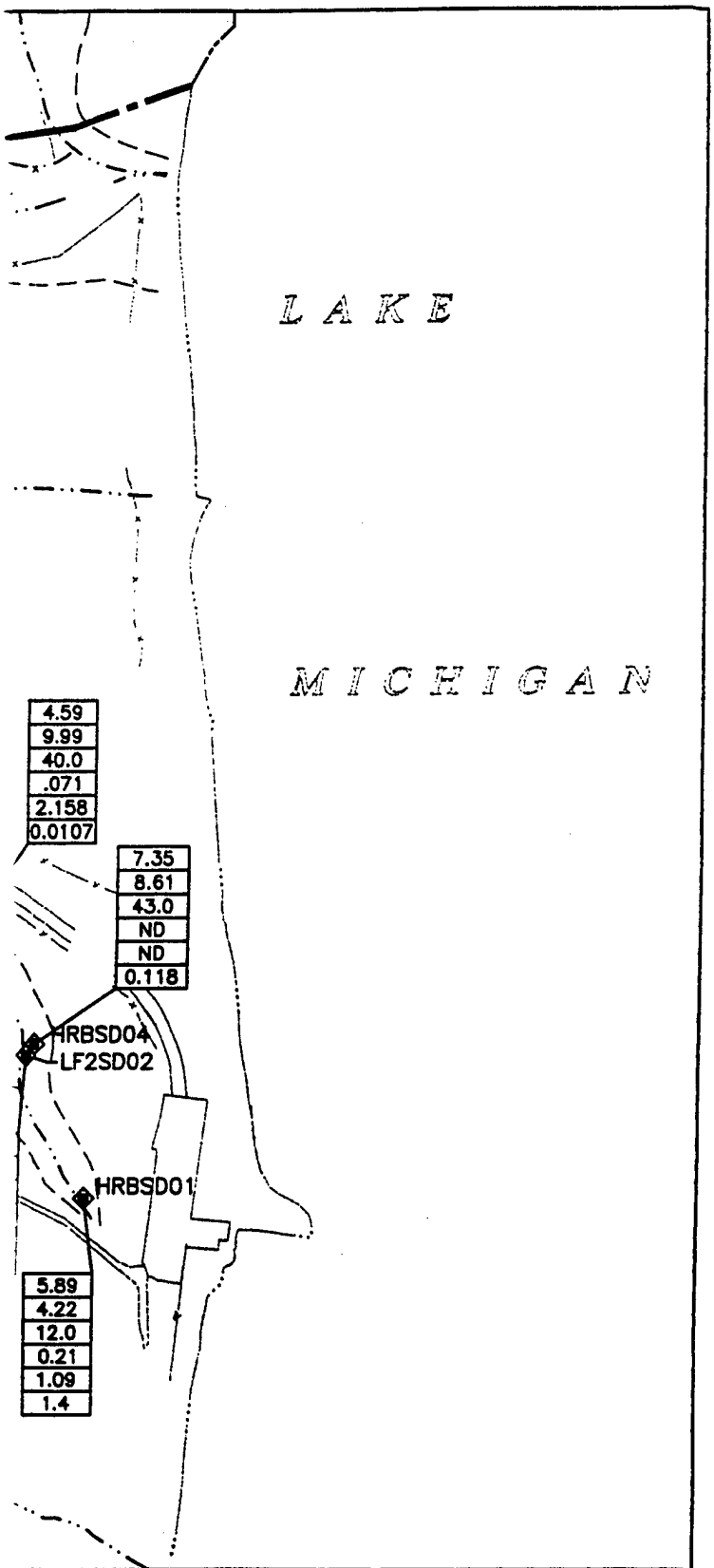
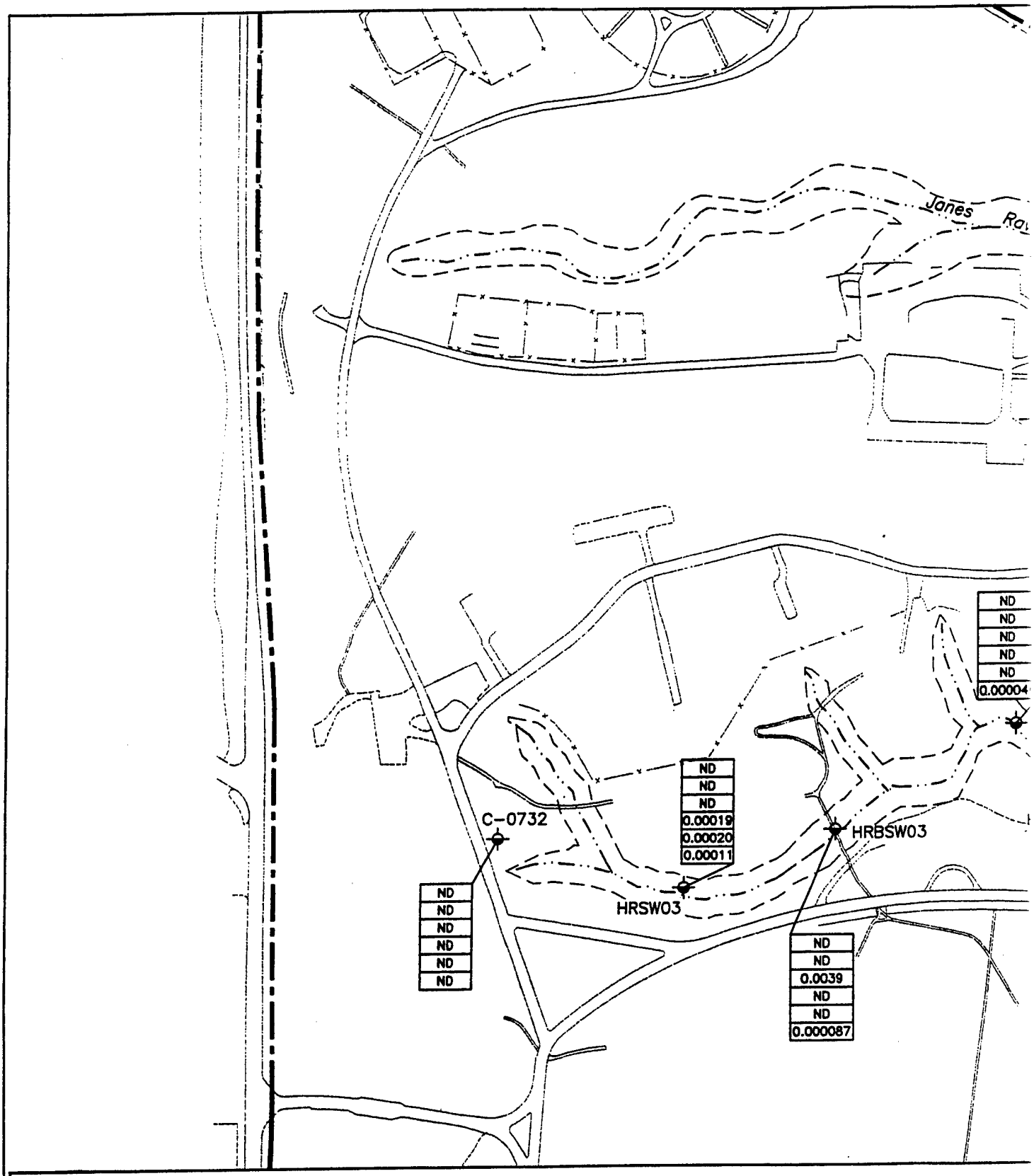


Figure 6-3
Sediment Analytical Results for Hutchinson Ravine
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois



Surface Water Analytical Results

ND	= Arsenic
ND	= Chromium
ND	= Lead
ND	= Benzo(a)pyrene
ND	= Total Carcinogenic PAHs
ND	= P,P'-DDD

ND Not detected at or above detection limit

NA Not Analyzed

Highest Detected Concentration in Surface Wate at Each Location

All Concentrations in Milligrams per Liter (mg/L

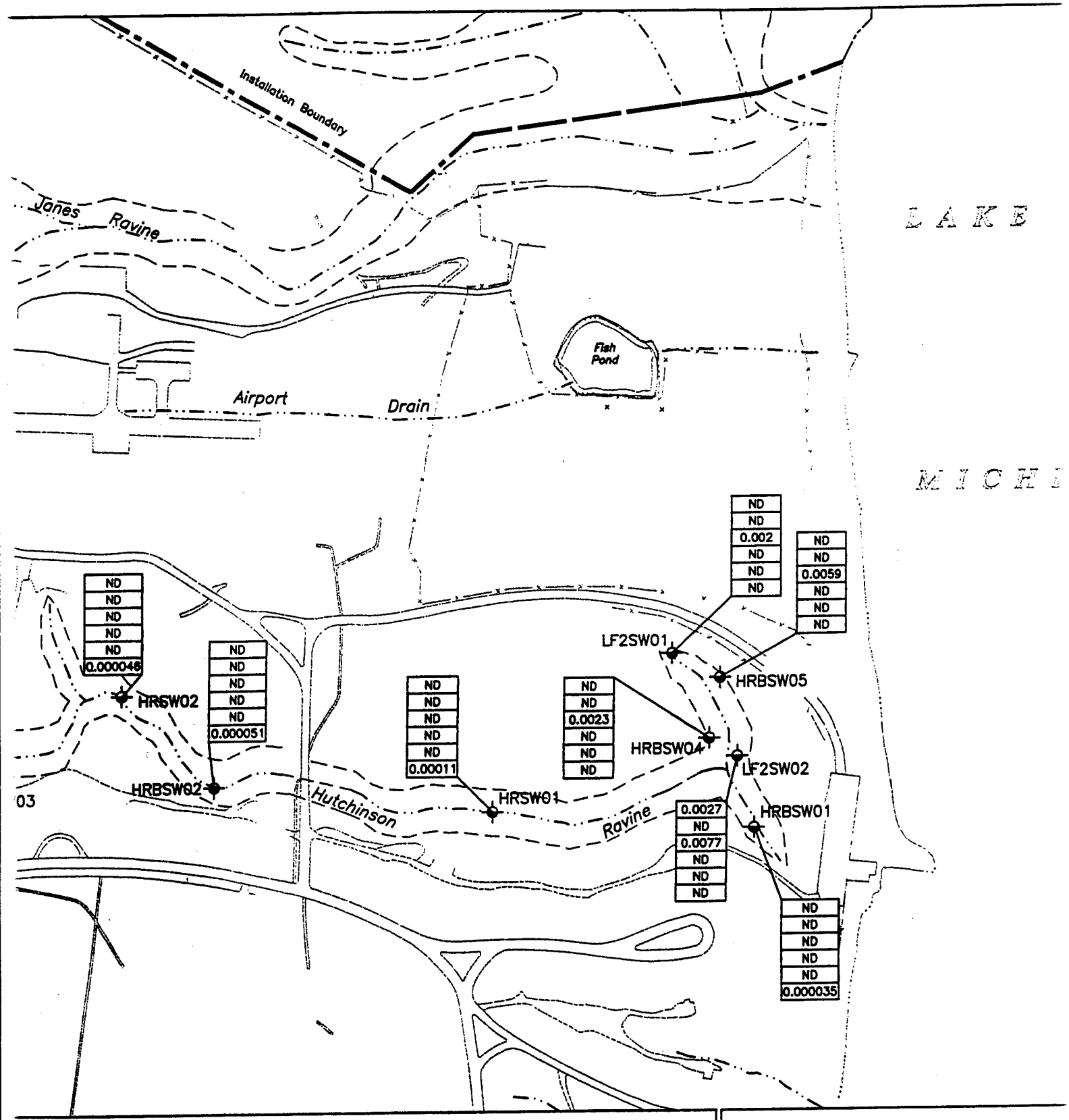
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Revised JCF 03/10/98

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~FSOUHRSW

Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photoç

(1)



detection limit

in Surface Water

per Liter (mg/L)

inia. Date of photography, 12/6/95.

Figure 6-4
Surface Water Analytical Results for Hutchinson Ra
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois

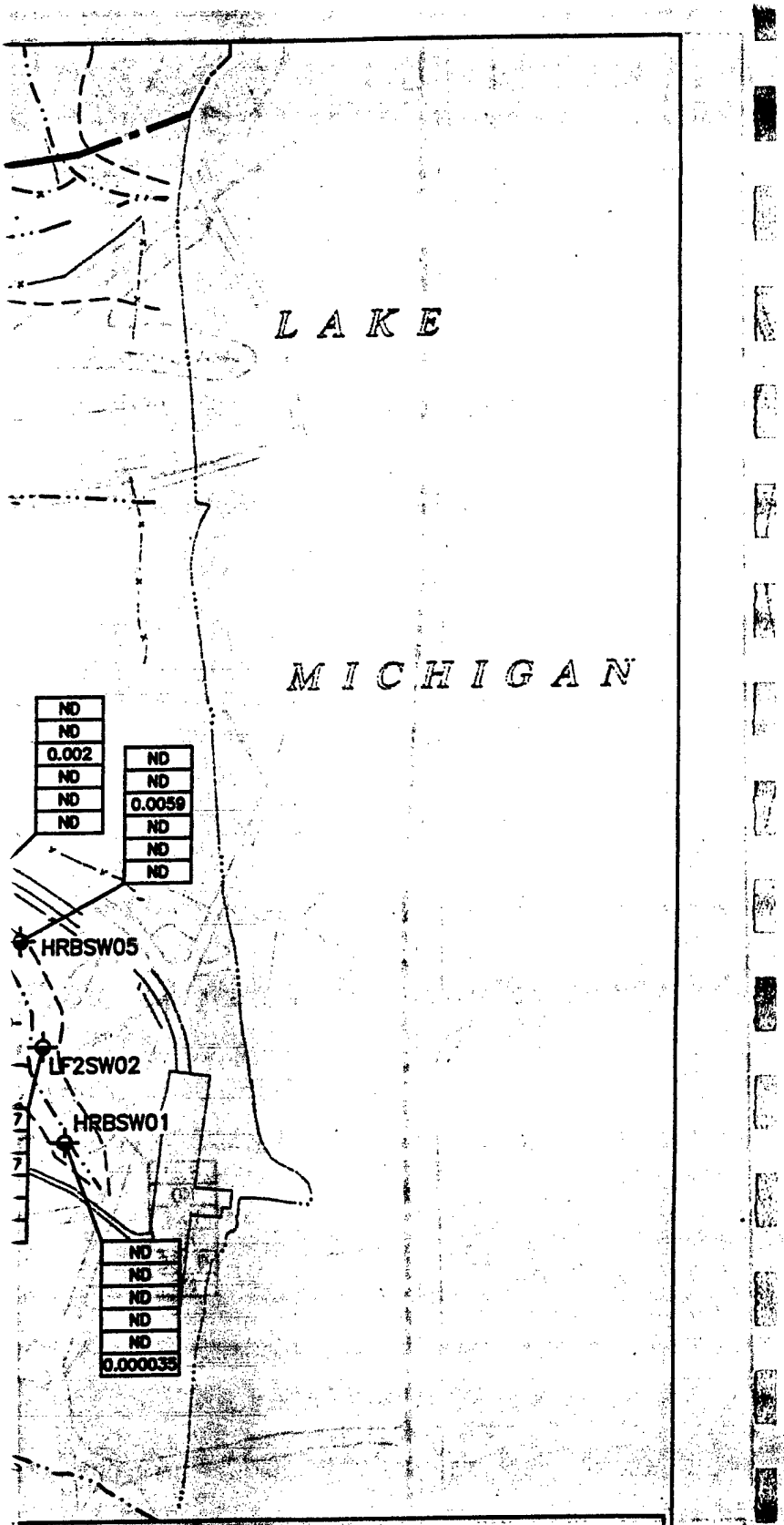
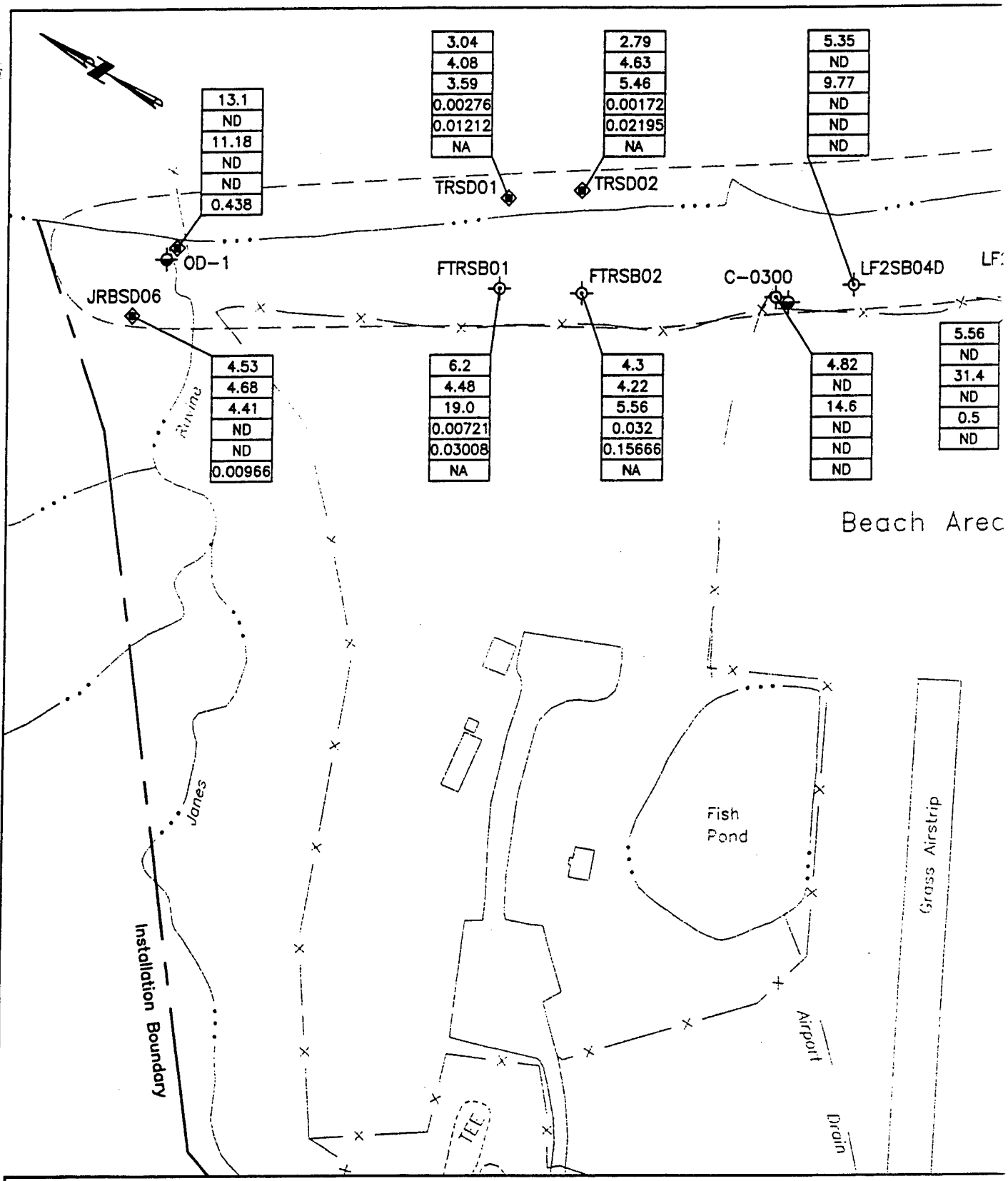


Figure 6-4
Surface Water Analytical Results for Hutchinson Ravine
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois



Sediment Analytical Results

ND	= Arsenic
ND	= Chromium
ND	= Lead
ND	= Benzo(a)pyrene
ND	= Total Carcinogenic PAHs
ND	= P,P'-DDD

ND Not detected at or above detection limi
NA Not Analyzed

Highest Detected Concentration in Sediment at Each Location (One or More Samples)

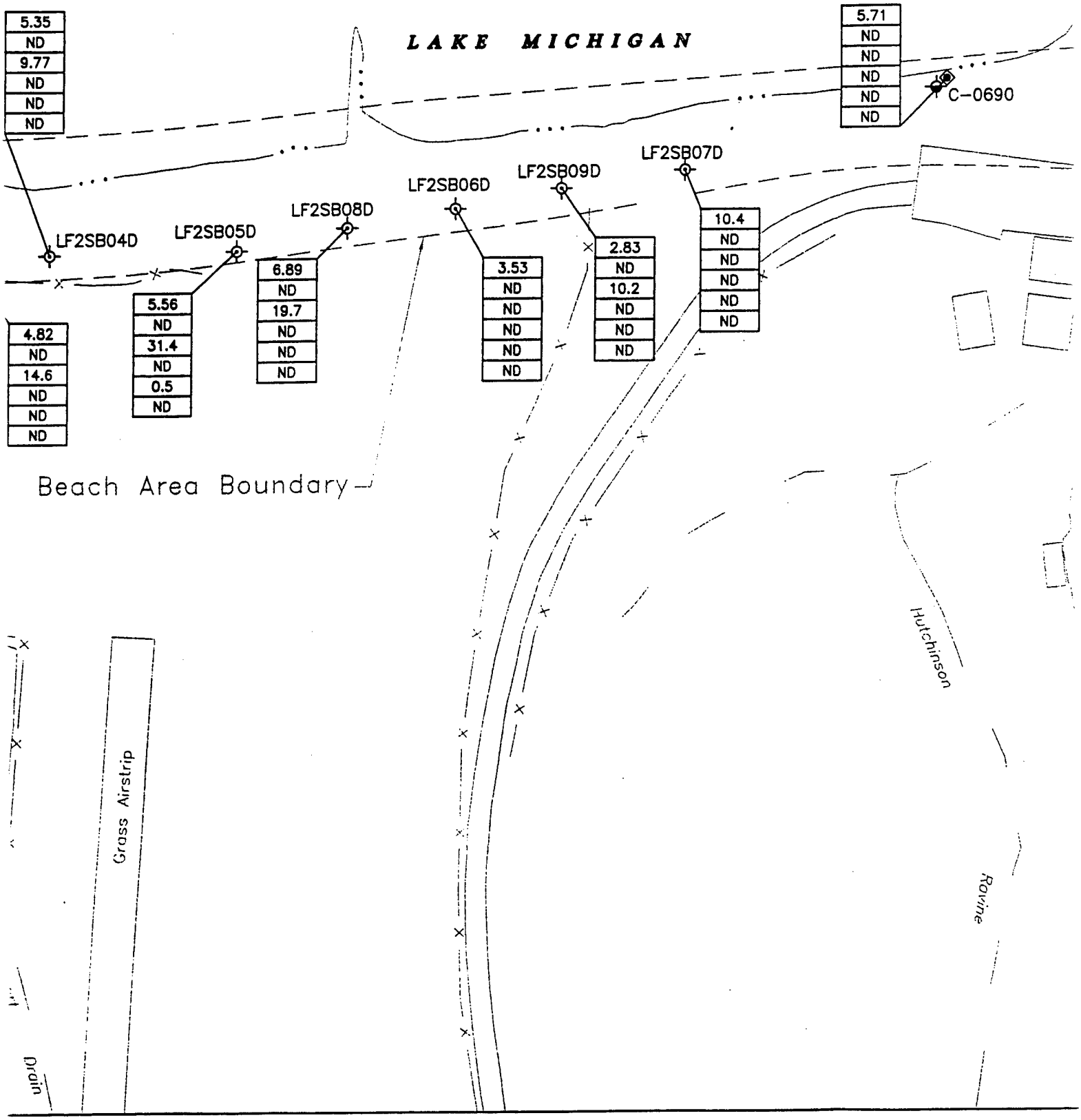
All Concentrations in Milligrams per Kilogram (

Installation information adapted from an aerial survey

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Revised JCF 03/10/98

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at or above detection limit

ncentration in Sediment
ne or More Samples)

Milligrams per Kilogram (mg/Kg)

Soil Boring Sample Location

Sediment Sample Location

Surface Water Sample Location

0 150
feet

Sediment A
at
Final RI/BRA
Beach Are
S

dapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photography, 12/06/95.

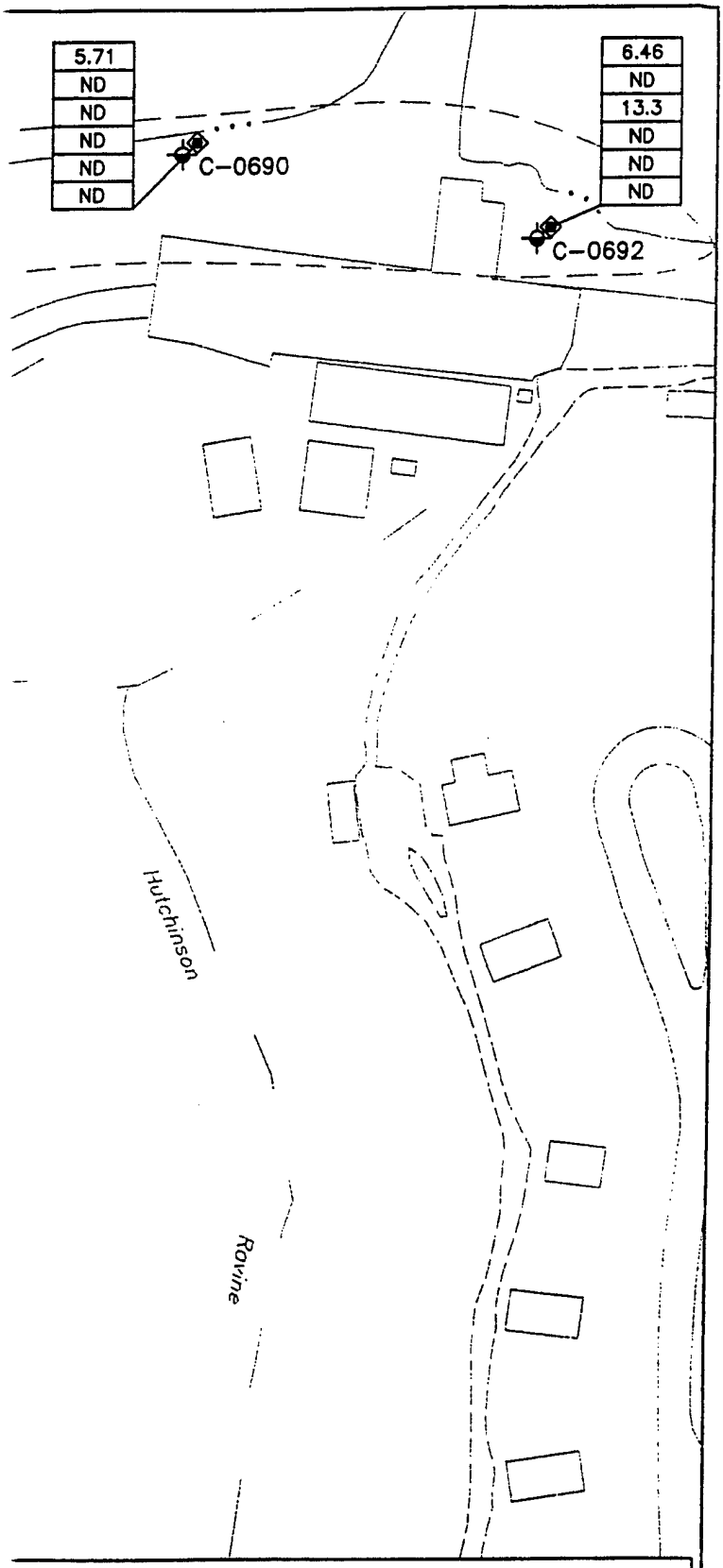
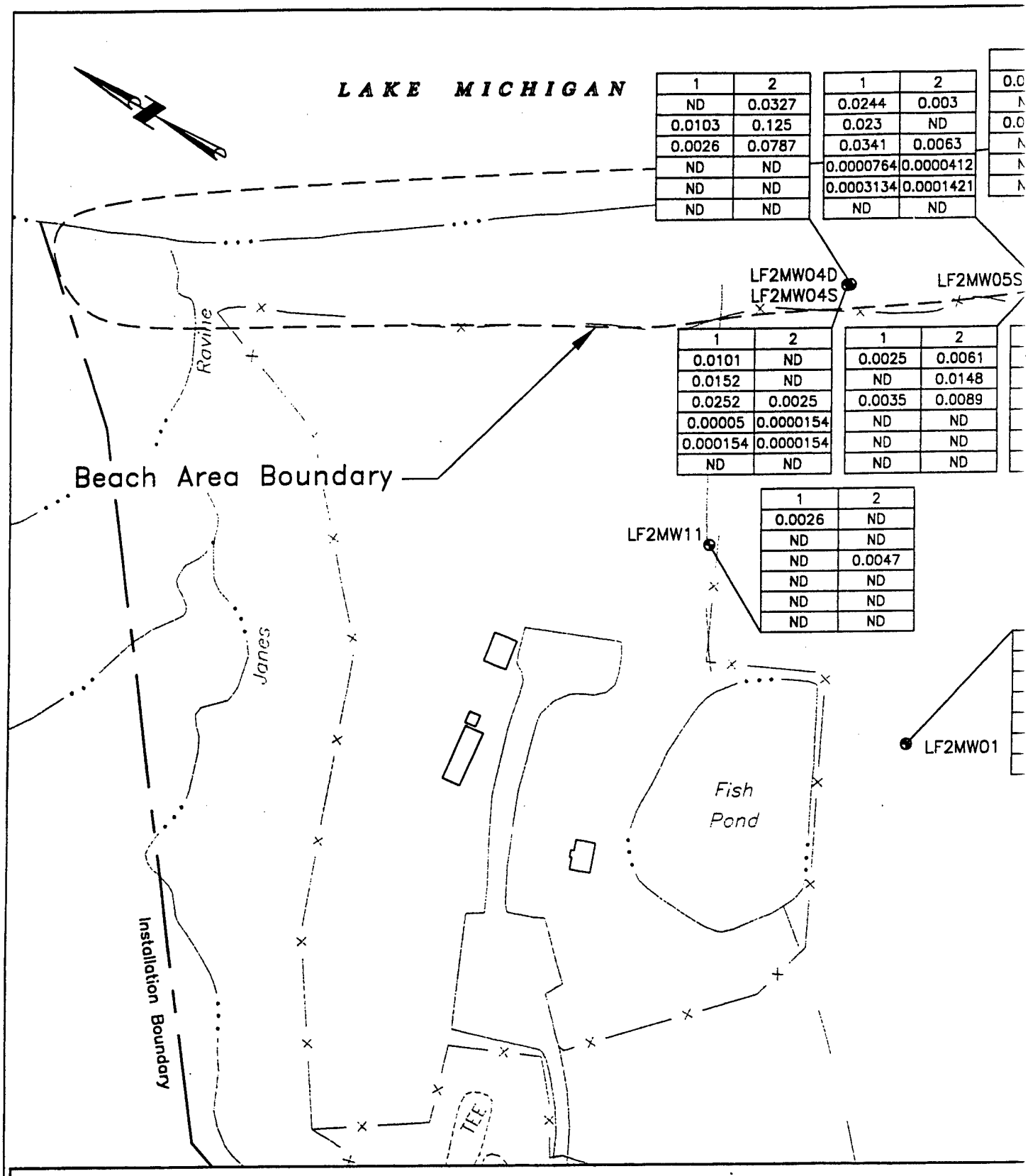


Figure 6-5
Sediment Analytical Results at the Beach Area
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois

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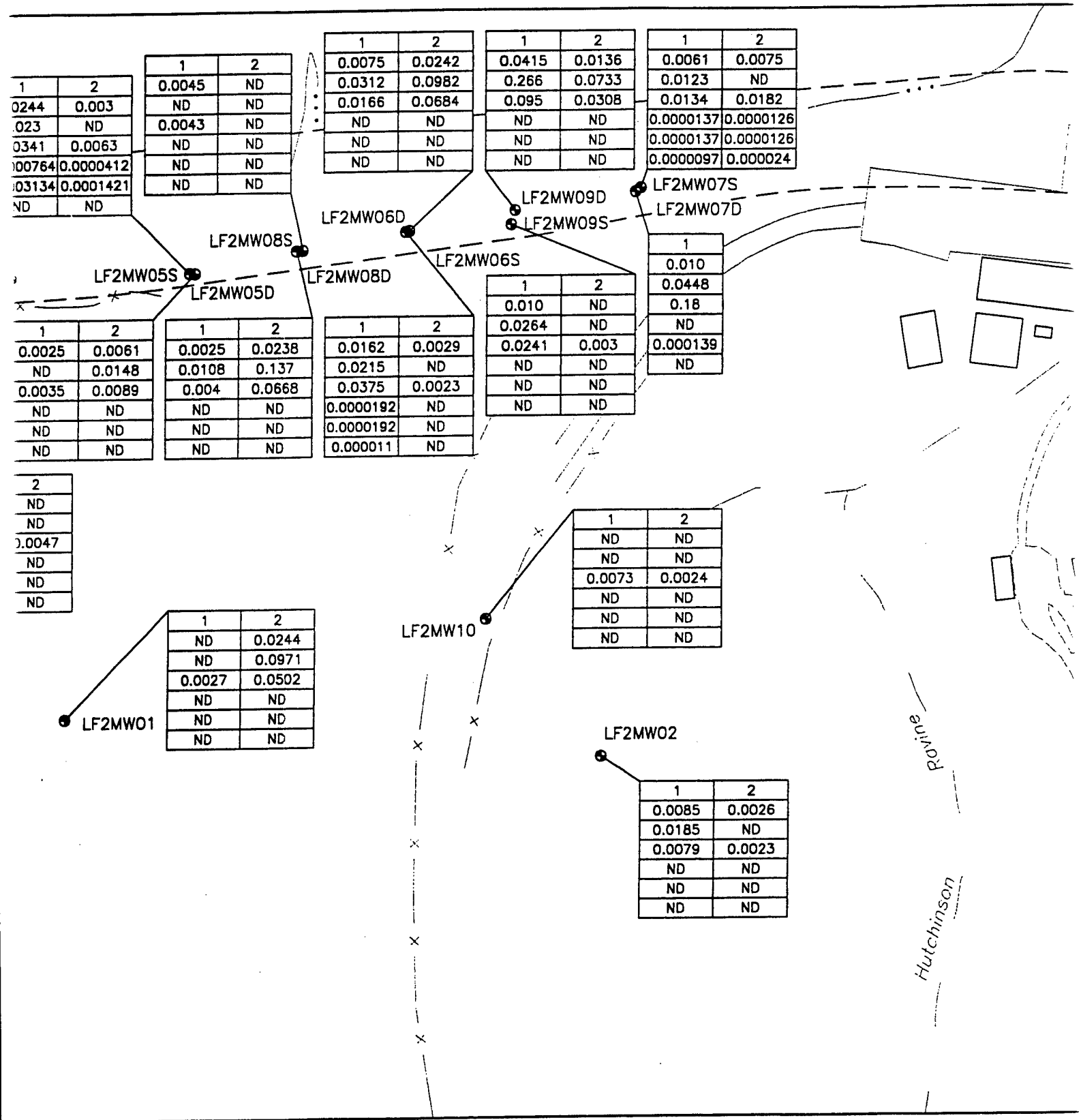
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1	2
0244	0.003
.023	ND
0341	0.0063
00764	0.0000412
03134	0.0001421
ND	ND

1	2
0.0045	ND
ND	ND
0.0043	ND
ND	ND
ND	ND
ND	ND

1	2
0.0075	0.0242
0.0312	0.0982
0.0166	0.0684
ND	ND
ND	ND
ND	ND

1	2
0.0415	0.0136
0.266	0.0733
0.095	0.0308
ND	ND
ND	ND
ND	ND

1	2
0.0061	0.0075
0.0123	ND
0.0134	0.0182
0.0000137	0.0000126
0.0000137	0.0000126
0.0000097	0.000024

1
0.010
0.0448
0.18
ND
0.000139
ND

1	2
0.010	ND
0.0264	ND
0.0241	0.003
ND	ND
ND	ND
ND	ND

1	2
0.0025	0.0061
ND	0.0148
0.0035	0.0089
ND	ND
ND	ND
ND	ND

1	2
0.0025	0.0238
0.0108	0.137
0.004	0.0668
ND	ND
ND	ND
ND	ND

1	2
0.0162	0.0029
0.0215	ND
0.0375	0.0023
0.0000192	ND
0.0000192	ND
0.000011	ND

2
ND
ND
0.0047
ND
ND
ND

1	2
ND	ND
ND	ND
0.0073	0.0024
ND	ND
ND	ND
ND	ND

1	2
ND	0.0244
ND	0.0971
0.0027	0.0502
ND	ND
ND	ND
ND	ND

1	2
0.0085	0.0026
0.0185	ND
0.0079	0.0023
ND	ND
ND	ND
ND	ND

sults

Groundwater Sampling

)yrene

cinogenic PAHs

ND Not detected at or above detection limit

NA Not Analyzed

Highest Detected Concentration in Groundwater at Each Location

All Concentrations in Milligrams per Liter (mg/L)

from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photography, 12/06/95.

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Beach Area Stu
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Fc

(2)

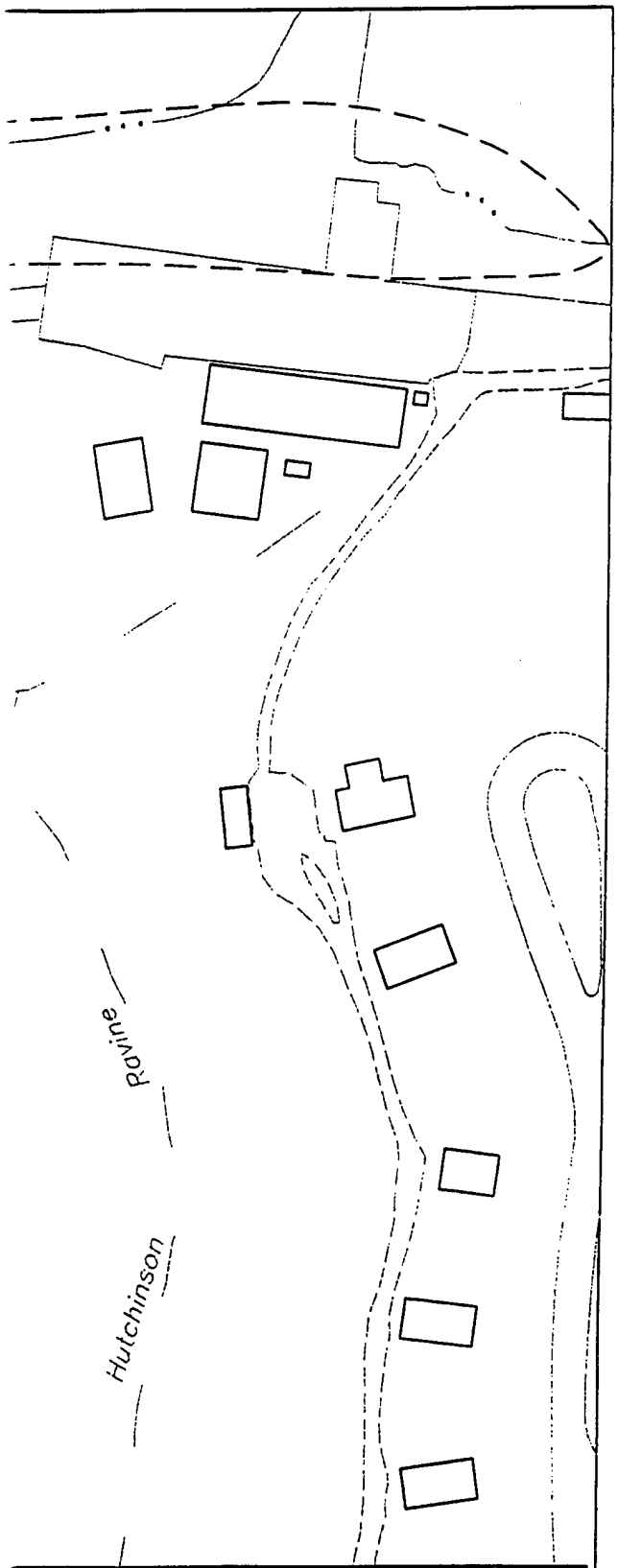


Figure 6-6
Groundwater Analytical Results at the Beach Area
Final RI/BRA for the Ravines and Beach Area Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois

7.0 Investigative Summary

This section summarizes the information from previous sections and presents conclusions based on these data.

7.1 Janes Ravine Study Area

Janes Ravine runs west to east along the northern boundary of Fort Sheridan and may have been potentially affected by mission-related constituents from various study areas at the installation. The ravine itself is relatively undisturbed and does not contain any obvious sources of potential contamination (e.g. filled areas). It does bound several other study areas and runoff from them may have affected the ravine.

Surface soil/sediment analytical data generally were below the maximum detected concentrations in background data set for metals and PAHs. However, a few pesticides/herbicides were detected in some sampling locations at concentrations above the highest concentration in the background data set. Pesticide/herbicide concentrations were the highest in sediment Sample C-0130, collected near the western boundary of Fort Sheridan. This location is proximal to a golf course green area and may be affected by golf course pesticide/herbicide management practices. Pesticide/herbicide concentrations detected in sediment Samples C-0242, JRSD02, and JRBSD03 may be related to use of these constituents on the golf course. The origin of pesticides/herbicides detected in Samples JRBSD01 and JRBSD02 is uncertain, but may also be related to pesticide/herbicide application during golf course maintenance activities, as two golf holes are located just north of Janes Ravine.

PAHs were not detected above MDLs in the surface water samples collected from Janes Ravine. Arsenic (total and dissolved) and chromium (total and dissolved) were generally not detected in the surface water samples at concentrations exceeding the maximum concentrations in the background data set (one exception, total arsenic in Sample C-0242). Total and/or dissolved lead were detected in some surface water samples at concentrations moderately exceeding the highest detected concentration in the background data set. A discharge pipe from B117 may have been the source for lead in Janes Ravine as the highest concentrations were generally detected in surface water Sample B117SW01 and in samples collected down stream of that sampling location. A few pesticides/herbicides were detected in surface water Samples C-0242 and JRSW02 at concentrations exceeding the maximum concentrations in the background data set. These detections may be related to pesticide/herbicide application during golf course maintenance activities.

L. variegatus was cultured in one Janes Ravine sediment sample (JRBSD01). Arsenic was detected in the *L. variegatus* tissue from the ravine sediment sample at a concentration similar to the reference sediment tissue sample (JRBSD04) and higher than in the control sediment tissue sample. Chromium

and lead were detected at higher concentrations than in the reference and control sediment tissue samples. Pesticides/herbicides were generally detected in the ravine sediment tissue sample at higher concentrations than in the reference sediment tissue sample. However, only p,p'-DDD and p,p'-DDE in the ravine sediment tissue sample were detected at higher concentrations than in the control sediment tissue sample. Whole sediment chronic toxicity tests conducted with *H. azteca* in Janes Ravine sediment did not demonstrate any adverse effects to the growth and survival of the organisms.

The extent to which the presence of any of the aforementioned constituents at Janes Ravine may pose a potential risk is evaluated in the BRA.

7.2 Hutchinson Ravine Study Area

Hutchinson Ravine runs west to east through the center of the Surplus OU and may have been potentially affected by mission-related constituents from various study areas at the installation. As with Janes Ravine, with the exception of the water treatment facility and LF2 in the small northern arm of Hutchinson Ravine, the ravine is relatively undisturbed and does not exhibit any obvious sources of constituents.

Sediment analytical data generally were below the maximum detected concentrations in background data set for arsenic and chromium (chromium in Sample HRBSD03 is the one exception). Lead was detected in several sediment samples at concentrations slightly exceeding the maximum concentration in the background data set. Most of the higher concentrations of lead were detected in the sediment samples collected from the north branch of the ravine that is located just downgradient (south) of LF2/SARN. The lead detected in these sediment samples likely originated from the filled northern portion of this branch of Hutchinson Ravine.

Benzo(a)pyrene and/or total carcinogenic PAHs were detected at concentrations exceeding the maximum concentration in the background data set in sediment samples collected along the central portion of the ravines main channel (HRSD02, HRBSD02 and HRBSD03). There is no known potential mission-related source of benzo(a)pyrene or total carcinogenic PAHs to this portion of Hutchinson Ravine. In addition, some pesticides/herbicides were detected in sediment samples collected from the main channel at concentrations above the highest concentration in the background data set. The origin of the pesticides/herbicides detected in samples collected in the main channel sediment of Hutchinson Ravine is uncertain. However, these detections may be related to application during golf course or lawn maintenance activities, as several golf course holes and officer housing units are located relatively near the ravine to the north and south.

Arsenic (total and dissolved) and chromium (total and dissolved) were not detected in the Hutchinson Ravine surface water samples at concentrations exceeding the maximum concentrations in the

background data set. Total lead and/or dissolved lead were detected in a few surface water samples at concentrations exceeding the highest detected concentration in the background data set. Most of the higher concentrations of lead were detected in the surface water samples collected from the north branch of the ravine that is located just downgradient (south) of LF2/SARN. The lead detected in these surface water samples likely originated from the filled northern portion of this branch of Hutchinson Ravine.

Benzo(a)pyrene and/or total carcinogenic PAHs were detected at concentrations exceeding the maximum concentration in the background data set in surface water Sample HRSW03, collected along the west central portion of the ravine. There is no known potential mission-related source of benzo(a)pyrene or total carcinogenic PAHs to this portion of Hutchinson Ravine. A few pesticides/herbicides were detected in surface water samples collected from the main channel of Hutchinson Ravine at concentrations exceeding the maximum concentrations in the background data set. The origin of the pesticides/herbicides detected in the samples collected in the main channel surface water of Hutchinson Ravine is uncertain. However, these detections may be related to application during golf course or lawn maintenance activities, as several golf course holes and officer housing units are located relatively near the ravine to the north and south.

L. variegatus was cultured in one Hutchinson Ravine sediment sample (HRBSD01). Arsenic was detected in the *L. variegatus* tissue from the ravine sediment sample at a concentration similar to the reference sediment tissue sample (JRBSD04) and higher than in the control sediment tissue sample. Chromium was not detected above MDLs in the ravine sediment sample. Lead was detected at a higher concentration than in the reference and control sediment tissue samples. Pesticides/herbicides were generally detected in the ravine sediment tissue sample at higher concentrations than in the reference sediment tissue sample. However, only p,p'-DDD and p,p'-DDE in the ravine sediment tissue sample were detected at higher concentrations than in the control sediment tissue sample. Whole sediment chronic toxicity tests conducted with *H. azteca* in Hutchinson Ravine sediment did not demonstrate any adverse effects to the growth and survival of the organisms.

The extent to which the presence of any of the aforementioned constituents at Hutchinson Ravine may pose a potential risk is evaluated in the BRA.

7.3 Beach Study Area

The Beach Area is located on the eastern portion of the Surplus OU, starting at the base of the bluffs along Lake Michigan to approximately 10 feet out into the lake. Available information indicated that prior activities at the study area included the possible burning of off specification munitions. In addition, the area may have been an occasional or accidental impact area for the former trap range and artillery firing points. The Beach Area was also identified as a potential UXO area.

Given the geologically active nature of the beach, this study area was not anticipated to be a significant source of constituents of concern, even considering its interesting history of use. The three phases of investigation performed at the study area have generally confirmed that substantial levels of constituents are not present at the study area. Soil borings installed at the Beach Area indicate that the beach sediments (i.e., sand and gravel resulting from recent alluvial processes) extend to a mean depth of approximately 7.5 ft-bgs. These beach sediments overlie the native clay-rich till.

Sediment analytical data indicate that arsenic, chromium, and lead were generally detected at relatively low concentrations, albeit above their respective detected concentrations in the background beach sediment sample (BLDBSD01). Benzo(a)pyrene and total carcinogenic PAHs were generally not detected at concentrations higher than the MDLs of the background sample. There was one exception, however; total carcinogenic PAHs in Sample LF2SB05D(6'). A few pesticides/herbicides were detected in the Janes Ravine outfall samples (OD-1 and JRBSD06). The origin of the pesticides/herbicides is unknown, but may be related to golf course activities farther up the ravine. In addition, 1,3-dinitrobenzene was detected in lake sediment sample TRSD02 at a low concentration (just above the MDL). It is possible this explosive-related constituent is related to the burning of off-specification munitions and/or the Beach Area's history as an impact area. The fact that this is the only detection of an explosive related constituent in the beach sediment samples suggests that this detection may be anomalous.

Total arsenic, total chromium, PAHs, and pesticides/herbicides were not detected above MDLs in any of the surface water samples collected from the ravine outfalls to Lake Michigan. Total lead was detected in surface water samples C-0690 and OD-1 at relatively low concentrations (less than three times the MDL).

Groundwater analytical data indicate that total arsenic, chromium, and lead exceeded their respective background comparison values in most of the Beach Area and LF2/SARN samples collected in Round 1 and/or Round 2. Although background comparison values were not calculated for dissolved arsenic, chromium, or lead, the study area data for these constituents from the same rounds of groundwater sampling were either below detection (chromium) or below their background concentrations. Benzo(a)pyrene and/or total carcinogenic PAHs were detected in several of the groundwater samples collected from the monitoring wells downgradient of (to the west of) LF2/SARN on the Lake Michigan shoreline. The potential anthropogenic source of these PAHs is the former burning and disposal of rubbish and/or off specification munitions at LF2/SARN and/or the Beach Area (see Subsection 7.2). A few pesticides/herbicides were detected in a few of the groundwater samples collected from the Beach Area and LF2/SARN at relatively low concentrations, albeit above their respective background comparison values. In addition, 2,4-dinitrotoluene and 4-amino-2,6-dinitrotoluene were detected at low concentrations (i.e., within 10 times the MDL) in Round 1 groundwater samples collected from monitoring wells LF2MW08D and LF2MW11, respectively. It was thought these explosive related

constituents in groundwater might be related to the burning of off specification munitions at LF2/SARN and/or SARN being an impact area. However, the fact that the detections were not confirmed in Round 2 suggests that the data may have been anomalous or at least that LF2/SARN does not represent a significant ongoing source. In addition, the fathead minnow toxicity testing did not indicate any adverse effects due to exposure to the LF2/SARN groundwater.

L. variegatus was cultured in two beach sediment samples collected from the outfalls to Lake Michigan of Janes and Hutchinson Ravines (JRBSD06 and HRBSD06). Arsenic, chromium, and lead were detected in the *L. variegatus* tissue from the beach sediment samples at concentrations similar to those in the reference sediment tissue sample (BLDBSD01) and at higher concentrations than in the control sediment tissue sample. Most pesticides/herbicides were detected in the beach sediment tissue samples at similar concentrations to those in the reference sediment tissue sample and at higher concentrations than in the control sediment tissue sample. However, p,p'-DDD in the beach sediment tissue samples was detected at higher concentrations than in the reference and control sediment tissue samples.

In summary, elevated concentrations of constituents were generally not detected in the Beach Area media. The extent to which the presence of any of the aforementioned constituents at the Beach Area may pose a potential risk is evaluated in the BRA.

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Appendix A

Daily Weather Summaries

NOAA Form 34-326T
(Rev. 1-93)

TRANSMITTAL

NO PAYMENT DUE - PAID IN FULL

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WILLIAMSTON MI 48895

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1099 WEST GRAND RIVER
WILLIAMSTON MI 48895

DESCRIPTION			AMOUNT
01 SUMMARY OF THE DAY DATA (FORM 5670) IL/CHICAGO	01/ /1995	MICRO PRINTS 12/ /1995	$ 7.00
98 SERVICE CHARGE		OTHER	$ 5.00

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AMOUNT OWED	$ 0.00

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SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 JAN	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9		10		11		12													13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	MNI	OCCURENCES OF WX TYPES F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	27	11	19	46	0.02	0.2	1		21	27	233	42	6	8	1	.	.	.	.	1	.	.	.	.	.	30	W	1739	0
02	21	8	15	50	0.00	0.0	1		20	29	453	82	1	3	.	.	.	.	.	.	.	.	.	.	.	28	W	0159	0
03	18	3	11	54	0.00	0.0	1		21	28	418	76	3	1	.	.	.	.	.	.	.	.	.	.	.	24	W	2023	0
04	7	-1	3	62	0.00	0.0	1		16	30	466	84	1	0	.	.	.	.	.	.	.	.	.	.	.	21	W	1818	0
05	19	-1	9	56	0.00	0.0	T		22	21	472	85	0	2	.	.	.	.	.	.	.	.	.	.	.	30	SW	1128	0
06	27	18	23	42	0.25	3.3	1	0.2	18	20	0	0	10	10	1	.	.	.	.	1	.	.	.	.	.	25	SW	0208	0
07	27	12	20	45	T	T	3	0.3	17	24	242	43	8	9	.	.	.	.	.	1	.	.	.	.	.	25	SW	2026	0
08	19	4	12	53	0.00	0.0	3	0.3	16	23	372	67	7	6	.	.	.	.	.	.	.	.	.	.	.	22	SW	0141	0
09	25	12	19	46	0.11	1.9	3	0.2	13	34	182	33	10	10	1	.	.	.	.	1	.	.	.	.	.	18	N	0200	0
10	29	16	23	42	0.00	0.0	4	0.4	13	18	41	7	10	9	1	.	.	.	.	.	.	.	.	.	.	16	SE	2113	0
11	40	25	33	32	0.01	0.0	4	0.4	9	19	0	0	10	10	1	.	.	.	.	.	1	.	.	.	1				0
12	47	37	42	23	T	0.0	3		23	24	1	0	10	10	1	.	.	.	1	.	.	.	.	.	1	31	SW	0952	0
13	38	33	36	29	0.84	0.0	0		21	02	0	0	10	10	1	.	.	.	1	.	.	.	.	.	1	23	NE	2335	0
14	39	35	37	28	0.80	0.0	0		23	36	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	32	N	0517	0
15	36	30	33	32	0.00	0.0	0		16	04	0	0	10	10		.	.	.	.	.	.	.	.	.	.	23	N	0314	0
16	36	31	34	31	0.00	0.0	0		14	12	0	0	10	10	.	.	.	.	.	.	.	.	.	.	.	18	SE	2226	0
17	43	30	37	28	0.00	0.0	0		23	19	103	18	9	10	1	.	.	.	.	.	.	.	.	.	.	36	S	1101	0
18	43	29	36	29	T	T	0		14	04	273	48	7	7	.	.	.	.	1	1	.	.	.	.	.	21	NE	2341	0
19	36	32	34	31	0.81	2.4	1		25	04	0	0	10	10	1	.	1	.	1	1	.	.	.	.	.	35	NE	0733	0
20	33	26	30	35	T	0.0	T		26	34	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	31	NW	0943	0
21	26	21	24	41	0.06	1.0	T		20	29	0	0	10	10	1	.	.	.	.	1	.	.	.	.	.	25	W	1558	0
22	22	16	19	46	0.23	3.5	3	0.3	17	29	0	0	10	10	1	.	.	.	.	1	.	.	.	.	.	21	W	1743	0
23	26	14	20	45	0.00	0.0	3	0.2	14	30	479	82	6	8	1	.	.	.	.	.	.	.	.	.	.	17	W	1830	0
24	25	5	15	50	0.00	0.0	2	0.2	12	27	508	87	0	1	.	.	.	.	.	.	.	.	.	.	.	17	W	1441	0
25	32	6	19	46	0.00	0.0	2	0.2	9	30	382	65	5	3	.	.	.	.	.	.	.	.	.	.	.	12	NW	1449	0
26	30	7	19	46	0.00	0.0	2	0.2	12	24	518	88	2	1	.	.	.	.	.	.	.	.	.	.	.	15	W	1322	0
27	34	13	24	41	0.08	0.8	2	0.2	18	09	132	22	10	9	1	.	.	.	.	1	.	.	1	.	.	22	E	2306	0
28	32	24	28	37	T	T	2	0.2	23	06	108	18	8	7	1	.	.	.	.	1	.	.	.	.	.	32	NE	0847	0
29	29	20	25	40	0.00	0.0	2	0.2	13	03	91	15	9	9	.	.	.	.	.	.	.	.	.	.	.	17	N	0920	0
30	34	12	23	42	0.00	0.0	2	0.2	21	24	482	81	4	5	1	.	.	.	.	.	.	.	.	.	.	29	W	2159	0
31	39	22	31	34	0.00	0.0	2	0.2	22	24	461	77	6	8	.	.	.	.	.	.	.	.	.	.	.	35	W	0030	0
TOTAL	939	550	M1262 S 3214		3.21	13.1					17741* 6417		222	226	17	0	1	0	6	10	1	0	1	0	3				M S	0 0
AVG	30.3	17.7	24.0									36	7.2	7.3																
DEPART. FR NORM			M-102 3.0 S -589		1.68																								M S	0 0
EXTREM	47	-1			1.58	3.7	4		26	34																36	S			
DATE	12	5+			13-14	21-22	22+			20																	17			

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
0	18	28	2	6	7	18

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
5	10	6	3	0	5

\+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1 SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 FEB	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9	10	11	12												13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY SS	MM	F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	42	32	37	28	0.00	0.0	1		13	25	444	74	4	7	.	.	.	.	.	.	.	.	.	.	.	17	W	0058	0
02	35	31	33	32	T	T	T		12	04	0	0	10	10	.	.	.	.	.	1	.	.	.	.	.	17	N	1004	0
03	35	26	31	34	0.02	0.4	T		26	34	4	1	10	9	1	.	.	.	.	1	.	.	.	.	.	35	N	2100	0
04	26	12	19	46	T	T	T		23	32	335	55	8	6	.	.	.	.	.	1	.	.	.	.	.	35	N	0923	0
05	14	3	9	56	0.00	0.0	T		21	34	610	100	0	1	.	.	.	.	.	.	.	.	.	.	.	30	N	0056	0
06	19	3	11	54	0.00	0.0	T		15	30	531	87	5	4	.	.	.	.	.	.	.	.	.	.	.	21	NW	1212	0
07	20	9	15	50	T	T	T		17	33	135	22	10	8	.	.	.	.	.	1	.	.	.	.	.	26	NW	1817	0
08	19	5	12	53	0.00	0.0	T		17	33	552	89	1	3	.	.	.	.	.	.	.	.	.	.	.	24	NW	0807	0
09	35	13	24	41	0.00	0.0	T		18	24	74	12	10	9	.	.	.	.	.	.	.	.	.	.	.	31	SW	0438	0
10	38	14	26	39	T	T	T		29	31	405	65	4	5	.	.	.	.	.	1	.	.	.	.	.	39	NW	1435	0
11	14	-1	7	58	T	T	T		26	30	488	78	2	2	.	.	.	.	.	1	.	.	.	.	.	37	SW	1235	0
12	16	-2	7	58	0.00	0.0	T		17	28	549	87	0	0	.	.	.	.	.	.	.	.	.	.	.	24	W	1300	0
13	23	11	17	48	0.00	0.0	T		21	28	501	80	3	4	.	.	.	.	.	.	.	.	.	.	.	30	W	1301	0
14	30	6	18	47	0.00	0.0	T		21	17	332	52	6	7	.	.	.	.	.	.	.	.	.	.	.	28	S	2247	0
15	36	23	30	35	0.02	0.0	T		21	29	0	0	10	10	1	.	.	.	1	.	1	.	.	.	.	29	W	1034	0
16	35	16	26	39	0.00	0.0	T		14	30	458	72	3	3	.	.	.	.	.	.	.	.	.	.	.	14	NE	1504	0
17	47	19	33	32	0.00	0.0	T		14	22	577	90	2	2	.	.	.	.	.	.	.	.	.	.	.	20	SW	1557	0
18	55	29	42	23	0.00	0.0	T		23	21	567	88	5	3	.	.	.	.	.	.	.	.	.	.	.	30	SW	1648	0
19	44	31	38	27	0.00	0.0	0		20	03	281	43	7	7	.	.	.	.	.	.	.	.	.	.	.	25	NE	1226	0
20	50	31	41	24	0.01	0.0	0		29	34	360	55	5	7	1	.	.	.	.	.	1	.	1	.	.	38	N	2224	0
21	33	24	29	36	0.00	0.0	0		25	35	460	70	7	8	.	.	.	.	.	.	.	.	.	.	.	38	N	0049	0
22	48	28	38	27	0.00	0.0	0		17	18	306	47	9	6	.	.	.	.	.	.	.	.	.	.	.	21	W	1128	0
23	51	30	41	24	0.01	0.0	0		25	33	480	73	3	6	1	.	.	.	1	.	.	.	1	.	.	39	NW	1459	0
24	38	26	32	33	0.00	0.0	0		18	32	503	76	4	5	.	.	.	.	.	.	.	.	.	.	.	28	NW	0339	0
25	47	32	40	25	0.00	0.0	0		21	07	445	67	8	9	.	.	.	.	.	.	.	.	.	.	.	28	NE	2325	0
26	33	28	31	34	0.25	0.0	0		22	06	0	0	10	10	1	.	.	.	.	.	1	.	1	.	.	29	E	0043	0
27	33	31	32	33	0.10	0.0	0		14	02	0	0	10	10	1	.	.	.	.	.	1	.	.	.	.	17	NE	2132	0
28	32	21	27	38	T	T	T		15	34	33	5	10	8	1	.	.	.	.	1	.	.	.	.	.	20	NW	2321	0
TOTAL	948	531		M1074 S 4288	0.41	0.4					17825* 9430		166	169	7	0	0	0	2	7	4	0	3	0	0			M S	0 0
AVG	33.9	19.0	26.5										53	5.9	6.0														
DEPART. FR NORM				M -35 S -624	1.1	-0.95																						M S	0 0
EXTREM	55	-2			0.34	0.4	1		29	34																39	NW		
DATE	18	12			26-27	03-04	01			20+																	23+		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
0	10	28	2	8	9	11

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
6	6	2	0	0	0

+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 MAR	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	FASTMILE DIR	SUNSHINE HRS	SUNSHINE %	SKY ISS	SKY MM	OCCURENCES OF WX TYPES F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK SPD	PEAK DIR	GUST TIME	COOL DEG
01	23	10	17	48	0.00	0.0	T		18	30	611	91	1	1	.	.	.	.	.	.	.	.	.	.	.	22	N	0328	0
02	28	7	18	47	0.00	0.0	T		13	01	605	89	1	2	.	.	.	.	.	.	.	.	.	.	.	17	SW	1413	0
03	33	12	23	42	0.00	0.0	T		16	23	678	100	0	0	.	.	.	.	.	.	.	.	.	.	.	18	S	1249	0
04	43	20	32	33	0.00	0.0	T		15	10	337	49	7	6	.	.	.	.	.	.	.	.	.	.	.	22	E	2257	0
05	38	31	35	30	0.15	2.0	1	0.1	14	13	0	0	10	10	1	.	.	.	1	1	.	.	.	.	.	17	E	0533	0
06	35	31	33	32	0.03	0.0	T		16	09	0	0	10	10	1	.	.	.	1	.	.	.	.	.	1	21	E	1837	0
07	35	26	31	34	0.39	1.5	T	1.7	20	34	55	8	10	9	1	.	1	.	1	1	.	.	.	.	1	25	N	1308	0
08	29	17	23	42	T	T	1		18	34	592	85	2	3	.	.	.	.	.	1	.	.	.	.	.	22	NW	0840	0
09	36	13	25	40	0.00	0.0	1		17	18	219	31	4	4	.	.	.	.	.	.	.	.	.	.	.	23	S	2302	0
10	51	30	41	24	0.00	0.0	T		26	22	228	33	7	6	.	.	.	.	.	.	.	.	.	.	.	35	S	0815	0
11	62	40	51	14	0.00	0.0	0		23	21	675	96	3	3	.	.	.	.	.	.	.	.	.	.	.	31	S	1544	0
12	71	47	59	6	0.00	0.0	0		26	21	686	97	6	4	.	.	.	.	.	.	.	.	.	.	.	49	SW	1414	0
13	72	51	62	3	0.00	0.0	0		20	22	544	77	6	6	.	.	.	.	.	.	.	.	.	.	.	28	S	1535	0
14	77	43	60	5	0.00	0.0	0		12	13	675	94	8	7	.	.	.	.	.	.	.	.	.	.	.	16	SW	1551	0
15	74	43	59	6	0.00	0.0	0		18	03	612	86	8	6	.	.	.	.	.	.	.	.	.	.	.	23	NE	1454	0
16	71	37	54	11	0.00	0.0	0		14	28	687	96	4	2	.	.	.	.	.	.	.	.	.	.	.	23	N	1421	0
17	49	36	43	22	0.00	0.0	0		16	04	460	64	7	6	.	.	.	.	.	.	.	.	.	.	.	22	NE	1808	0
18	66	34	50	15	T	0.0	0		16	10	587	81	7	8	.	.	.	.	1	.	.	.	.	.	.	25	N	2032	0
19	55	45	50	15	0.02	0.0	0		16	18	347	48	9	8	1	.	.	.	1	.	.	.	1	.	.	21	S	0506	0
20	60	40	50	15	0.21	0.0	0		31	25	225	31	10	10	1	1	.	.	1	.	.	.	1	.	.	48	SW	0955	0
21	51	35	43	22	0.00	0.0	0		22	28	275	38	8	8	.	.	.	.	.	.	.	.	.	.	.	33	W	1200	0
22	47	30	39	26	T	0.0	0		20	05	614	84	6	5	.	.	.	.	1	.	.	.	.	.	.	23	NE	2251	0
23	41	25	33	32	0.03	0.0	0		21	04	21	3	10	8	1	.	.	.	1	.	.	.	.	.	.	26	NE	1030	0
24	50	24	37	28	0.00	0.0	0		15	05	721	98	1	1	.	.	.	.	.	.	.	.	.	.	.	17	NE	1436	0
25	58	25	42	23	0.00	0.0	0		17	06	699	94	6	5	.	.	.	.	.	.	.	.	.	.	.	22	NE	1342	0
26	49	38	44	21	0.03	T	0		20	09	21	3	10	10	.	1	1	.	1	.	.	.	.	.	.	26	E	2056	0
27	45	38	42	23	0.48	0.0	0		25	11	0	0	10	10	1	1	.	.	1	.	.	.	.	.	.	32	SE	0729	0
28	44	38	41	24	0.09	0.0	0		10	03	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	13	N	2327	0
29	43	37	40	25	0.00	0.0	0		10	31	0	0	10	10	1	.	.	.	.	.	.	.	.	.	.	15	N	1120	0
30	47	34	41	24	0.00	0.0	0		14	30	314	42	9	10	.	.	.	.	.	.	.	.	.	.	.	22	NW	1422	0
31	42	31	37	28	T	T	0		14	29	7	1	10	10	1	.	.	.	.	1	.	.	.	.	.	17	NW	1518	0
TOTAL	1525	968	M 760 S 5048		1.43	3.5					22235* 11495		210	198	10	3	2	0	11	4	0	0	2	0	2				M 0 S 0
AVG	49.2	31.2	40.2									52	6.8	6.4															
DEPART. FR NORM			M-102 3.0 S -726																										M 0 S 0
EXTREM	77	7			0.50	2.0	2		31	25																49	SW		
DATE	14	2			26-27	05	07+			20																	12		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
0	3	15	0	6	10	15

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
4	9	4	0	0	2

+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 APR	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9	10	11	12																13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	MMI	OCCURENCES OF WX TYPES F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	46	29	38	27	0.01	0.0	0		13	26	355	47	9	9	.	.	.	.	1	.	.	.	.	.	.	20	W	1658	0
02	55	33	44	21	T	0.0	0		22	19	751	98	3	5	1	.	.	.	1	.	.	.	.	.	.	36	S	2259	0
03	63	44	54	11	0.09	0.0	0		24	31	347	45	7	7	1	.	.	.	1	.	.	.	.	.	.	33	NW	2346	0
04	44	21	33	32	0.00	0.0	0		24	33	767	100	0	0	.	.	.	.	.	.	.	.	.	.	.	35	NW	1230	0
05	49	18	34	31	T	0.0	0		21	20	520	67	5	5	.	.	.	.	1	.	.	.	.	.	.	30	S	1803	0
06	67	36	52	13	0.00	0.0	0		23	22	581	75	5	5	.	.	.	.	.	.	.	.	.	.	.	35	SW	0336	0
07	52	34	43	22	0.04	0.0	0		18	05	208	27	9	8	1	.	.	.	1	.	.	.	.	.	.	26	NE	2317	0
08	48	39	44	21	0.00	0.0	0		21	04	147	19	10	10	1	.	.	.	.	.	.	.	1	.	.	26	NE	1449	0
09	42	32	37	28	1.09	T	0		29	06	386	49	9	9	1	1	1	.	1	.	.	.	.	.	.	41	NE	0506	0
10	41	32	37	28	0.51	T	0		28	08	0	0	10	10	1	1	1	.	1	.	1	.	.	.	.	37	E	1225	0
11	61	38	50	15	0.71	0.0	0		29	25	131	17	10	10	1	1	.	.	1	.	.	.	.	.	.	51	SW	1851	0
12	44	35	40	25	0.10	0.1	0		28	23	34	4	10	9	1	.	.	.	1	1	.	.	.	.	.	43	SW	0906	0
13	59	39	49	16	0.00	0.0	0		23	31	667	84	2	4	.	.	.	.	.	.	.	.	.	.	.	36	NW	1353	0
14	53	33	43	22	0.00	0.0	0		14	06	727	91	5	6	.	.	.	.	.	.	.	.	.	.	.	17	NE	2117	0
15	56	38	47	18	0.00	0.0	0		15	09	5	1	10	10	.	.	.	.	.	.	.	.	.	.	.	22	E	1338	0
16	63	41	52	13	T	0.0	0		12	05	167	21	10	9	.	1	.	.	1	.	.	.	.	.	.	18	NE	1610	0
17	60	41	51	14	0.19	0.0	0		15	03	499	62	8	8	.	1	.	.	1	.	.	.	.	.	.	21	NE	1231	0
18	76	47	62	3	0.59	0.0	0		36	22	274	34	8	9	1	.	.	.	1	.	.	.	.	.	.	51	SW	1332	0
19	55	42	49	16	T	0.0	0		23	27	388	48	7	8	1	.	.	.	1	.	.	.	.	.	.	38	W	0052	0
20	47	41	44	21	0.01	0.0	0		21	11	105	13	10	10	1	.	.	.	1	.	.	.	.	.	.	29	E	0908	0
21	52	42	47	18	0.04	0.0	0		21	26	30	4	10	10	1	.	.	.	1	.	.	.	.	.	1	29	W	1422	0
22	61	42	52	13	0.00	0.0	0		12	14	532	65	5	6	.	.	.	.	.	.	.	.	.	.	.	13	SE	1451	0
23	50	39	45	20	0.00	0.0	0		15	04	145	18	10	9	.	.	.	.	.	.	.	.	.	.	.	18	NE	1607	0
24	62	32	47	18	0.07	0.0	0		18	27	582	71	9	9	.	.	.	.	1	.	.	.	.	.	.	29	W	1732	0
25	58	37	48	17	0.01	0.0	0		16	27	562	68	6	7	.	.	.	.	1	.	.	.	.	.	.	21	NW	0227	0
26	53	47	50	15	1.76	0.0	0		13	05	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	17	E	1949	0
27	52	44	48	17	0.46	0.0	0		21	28	35	4	10	9	1	.	.	.	1	.	.	.	.	.	.	30	NW	0326	0
28	64	43	54	11	0.00	0.0	0		14	25	563	68	4	6	.	.	.	.	.	.	.	.	.	.	.	24	W	1302	0
29	56	43	50	15	0.02	0.0	0		16	05	145	17	10	10	.	.	.	.	1	.	.	.	.	.	.	22	NE	1756	0
30	50	39	45	20	0.09	0.0	0		18	04	455	54	9	8	.	.	.	.	1	.	.	.	.	.	.	24	NE	1539	0
TOTAL	1639	1121	M 561 S 5609		5.79	0.1					24047* 10108		230	235	14	5	2	0	21	1	1	0	1	0	1				M 0 S 0
AVG	54.6	37.4	46.0										42	7.7	7.8														
DEPART. FR NORM			M 69 -2.6 S -657		2.15																								M 0 S 0
EXTREM	76	18			2.15	0.1	0		36	22																51	SW		
DATE	18	5			26-27	12				18																	18+		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
0	0	6	0	3	8	19

PRECIPITATION .01+	.10+	.50+	1.00+	SNOW 1.0+
T				
4	17	8	5	2	0

\+ Indicates measurement >= threshold value

FIELD:
- (8) Water equivalent of snow and ice on ground.
- (9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
- (9&13) Wind speeds are in miles per hour.
- (10) * = Total possible sunshine
- (11) S-S indicates sunrise to sunset and M-M midnight to midnight.
- (12) Entry of 1 indicates occurrence of weather. Weather types are: F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
- (4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 MAY	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9	10	11	12												13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	MMI	OCCURENCES OF WX TYPES F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	53	38	46	19	0.00	0.0	0		22	05	479	57	10	9	.	.	.	.	.	.	.	.	.	.	.	31	NE	1658	0
02	59	42	51	14	0.00	0.0	0		17	03	674	80	7	7	.	.	.	.	.	.	.	.	.	.	.	22	NE	1258	0
03	62	39	51	14	0.00	0.0	0		10	08	560	66	10	9	.	.	.	.	.	.	.	.	.	.	.	16	E	1157	0
04	57	48	53	12	0.01	0.0	0		8	03	0	0	10	10	1	.	.	.	1	.	.	.	1	.	.	12	N	1311	0
05	72	40	56	9	0.01	0.0	0		17	05	609	72	5	4	1	.	.	.	1	.	.	.	1	.	1	33	NW	1447	0
06	72	39	56	9	0.00	0.0	0		15	09	762	89	6	6	.	.	.	.	.	.	.	.	.	.	.				0
07	75	50	63	2	0.00	0.0	0		20	08	639	75	7	8	.	.	.	.	.	.	.	.	.	.	.				0
08	66	49	58	7	0.40	0.0	0		22	12	196	23	10	10	1	.	.	.	1	.	.	.	.	.	.	33	E	1341	0
09	74	48	61	4	0.99	0.0	0		18	30	550	64	7	8	1	1	.	.	1	.	.	.	1	.	.	26	NW	1952	0
10	54	49	52	13	0.28	0.0	0		17	32	12	1	10	10	1	.	.	.	1	.	.	.	.	.	1	25	N	1715	0
11	68	50	59	6	0.00	0.0	0		10	23	456	53	7	6	.	.	.	.	.	.	.	.	.	.	.	17	W	1307	0
12	71	49	60	5	0.00	0.0	0		15	20	718	83	5	6	.	.	.	.	.	.	.	.	.	.	.	23	S	1315	0
13	66	57	62	3	0.08	0.0	0		24	17	22	3	10	10	1	1	.	.	1	.	.	.	.	.	.	33	S	1155	0
14	70	54	62	3	0.00	0.0	0		24	26	529	61	8	6	.	.	.	.	.	.	.	.	.	.	.	35	W	0659	0
15	76	47	62	3	0.00	0.0	0		8	19	792	91	3	3	.	.	.	.	.	.	.	.	.	.	.	17	NW	1323	0
16	78	59	69	0	0.25	0.0	0		23	23	234	27	9	9	1	.	.	.	1	.	.	.	.	.	.	37	SW	1629	4
17	65	52	59	6	0.00	0.0	0		20	04	453	52	9	9	1	.	.	.	.	.	.	.	.	.	.	28	NE	0733	0
18	58	46	52	13	0.22	0.0	0		20	05	193	22	10	9	.	.	.	.	1	.	.	.	.	.	.	25	NE	1405	0
19	76	46	61	4	0.00	0.0	0		17	29	804	91	1	1	.	.	.	.	.	.	.	.	.	.	.	23	W	1730	0
20	76	56	66	0	0.00	0.0	0		21	26	704	80	5	4	.	.	.	.	.	.	.	.	.	.	.	35	W	1345	1
21	72	48	60	5	0.00	0.0	0		12	26	824	93	1	2	.	.	.	.	.	.	.	.	.	.	.	22	W	0932	0
22	78	45	62	3	0.00	0.0	0		16	18	796	90	3	4	.	.	.	.	.	.	.	.	.	.	.	24	S	1445	0
23	69	51	60	5	1.23	0.0	0		21	02	0	0	10	10	1	1	.	.	1	.	.	.	.	.	.	24	N	1654	0
24	57	48	53	12	0.22	0.0	0		21	03	51	6	10	10	1	1	.	.	1	.	.	.	.	.	.	24	NE	0905	0
25	62	46	54	11	0.17	0.0	0		15	04	564	63	6	6	1	.	.	.	1	.	.	.	.	.	.	20	NE	1456	0
26	67	44	56	9	0.00	0.0	0		18	09	758	85	6	6	.	.	.	.	.	.	.	.	.	.	.	24	E	1322	0
27	68	53	61	4	0.33	0.0	0		17	12	100	11	10	10	1	.	.	.	1	.	.	.	.	.	.	25	E	1139	0
28	74	57	66	0	0.28	0.0	0		26	24	433	48	8	9	1	.	.	.	1	.	.	.	.	.	.	38	SW	1017	1
29	68	54	61	4	T	0.0	0		20	25	364	41	8	8	.	.	.	.	1	.	.	.	.	.	.	29	W	0042	0
30	82	54	68	0	0.00	0.0	0		10	12	760	85	0	0	.	.	.	.	.	.	.	.	.	.	.	18	N	1237	3
31	84	54	69	0	0.00	0.0	0		12	08	728	81	7	6	.	.	.	.	.	.	.	.	.	.	.	20	E	1523	4
				M 199							27081*																M	13
TOTAL	2129	1512		S 5808	4.47	0.0					14764		218	215	13	4	0	0	14	0	0	0	3	0	2		S	13
AVG	68.7	48.8	58.8									55	7.0	6.9														
DEPART.				M -36																							M	-33
FR NORM			-0.1	S -693	1.15																						S	-33
EXTREM	84	38			1.35	0.0	0		26	24																38	SW		
DATE	31	1			23-24					28																	28		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
0	0	0	0	5	11	15

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
1	13	10	2	1	0

\+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 JUN	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9		10	11		12												13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	SKY MNI	OCCURENCES OF WX TYPES F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	80	62	71	0	0.00	0.0	0		12	06	533	59	9	10	.	.	.	.	.	.	.	.	.	.	.	20	E	1321	6
02	76	59	68	0	0.09	0.0	0		10	04	108	12	10	10	1	1	.	.	1	.	.	.	1	.	.	24	SW	1614	3
03	75	58	67	0	0.01	0.0	0		16	02	755	84	3	3	1	.	.	.	1	.	.	.	1	.	.	26	NE	1327	2
04	79	54	67	0	0.00	0.0	0		14	07	768	85	6	4	.	.	.	.	.	.	.	.	.	.	.	17	E	1428	2
05	80	55	68	0	0.00	0.0	0		10	08	788	87	2	2	.	.	.	.	.	.	.	.	.	.	.	20	E	1129	3
06	88	60	74	0	0.03	0.0	0		21	20	535	59	6	5	.	1	.	.	1	.	.	.	1	.	.	35	S	1647	9
07	92	51	72	0	0.06	0.0	0		29	01	658	73	6	6	1	1	.	.	1	.	.	.	.	.	.	41	N	1946	7
08	58	49	54	11	T	0.0	0		23	02	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	33	NE	1245	0
09	69	52	61	4	T	0.0	0		13	03	298	33	10	10	1	.	.	.	1	.	.	.	.	.	.	21	NE	1323	0
10	83	52	68	0	0.22	0.0	0		20	26	550	60	8	7	1	1	.	.	1	.	.	.	1	.	.	30	W	1555	3
11	67	51	59	6	0.00	0.0	0		17	05	398	44	9	8	.	.	.	.	.	.	.	.	.	.	.	22	NE	1022	0
12	73	49	61	4	0.00	0.0	0		14	05	705	77	3	3	.	.	.	.	.	.	.	.	.	.	.	21	NE	1033	0
13	85	51	68	0	0.00	0.0	0		12	34	777	85	2	3	.	.	.	.	.	.	.	.	.	.	.	24	NW	1151	3
14	90	59	75	0	0.00	0.0	0		10	08	725	79	3	4	.	.	.	.	.	.	.	.	.	.	.	17	S	1455	10
15	89	57	73	0	0.00	0.0	0		15	10	720	79	4	5	.	.	.	.	.	.	.	.	.	.	.	23	S	1130	8
16	89	64	77	0	0.00	0.0	0		17	20	786	86	3	5	.	.	.	.	.	.	.	.	.	.	.	26	S	1506	12
17	90	65	78	0	0.00	0.0	0		17	23	768	84	3	4	.	.	.	.	.	.	.	.	1	.	.	25	SW	1447	13
18	93	71	82	0	0.00	0.0	0		12	29	719	79	5	6	.	.	.	.	.	.	.	.	1	.	.	24	W	1035	17
19	94	71	83	0	0.00	0.0	0		12	35	815	89	3	3	.	.	.	.	.	.	.	.	.	.	.	22	NW	1005	18
20	95	74	85	0	0.00	0.0	0		15	03	861	94	1	1	.	.	.	.	.	.	.	.	.	.	.	22	N	0323	20
21	86	69	78	0	0.00	0.0	0		21	14	732	80	1	2	.	.	.	.	.	.	.	.	.	.	.	24	SE	1950	13
22	93	69	81	0	0.00	0.0	0		12	09	737	81	1	1	.	.	.	.	.	.	.	.	1	.	.	17	E	1210	16
23	91	67	79	0	0.00	0.0	0		13	06	788	86	1	1	1	.	.	.	.	.	.	.	1	.	.	21	NE	1551	14
24	94	63	79	0	0.00	0.0	0		14	06	770	84	3	2	1	.	.	.	.	.	.	.	1	.	.	20	NE	1456	14
25	88	63	76	0	0.00	0.0	0		16	06	791	87	3	3	1	.	.	.	.	.	.	.	1	.	.	22	NE	1838	11
26	84	69	77	0	0.01	0.0	0		17	10	366	40	10	10	1	.	.	.	1	.	.	.	1	.	.	24	S	2151	12
27	80	67	74	0	0.94	0.0	0		23	10	277	30	10	9	1	1	.	.	1	.	.	.	1	.	.	35	E	1142	9
28	82	67	75	0	0.04	0.0	0		15	29	460	50	9	9	1	1	.	.	1	.	.	.	1	.	.	23	W	1223	10
29	87	67	77	0	0.00	0.0	0		12	27	673	74	7	7	1	.	.	.	.	.	.	.	.	.	.	20	W	1529	12
30	82	61	72	0	0.00	0.0	0		17	30	705	77	8	7	.	.	.	.	.	.	.	.	.	.	.	28	NW	1506	7
TOTAL	2512	1826	M 25 S 5833		1.40	0.0					27315* 18566		159	160	13	6	0	0	10	0	0	0	13	0	0				M 254 S 267
AVG	83.7	60.9	72.3										68	5.3	5.3														
DEPART.			M -10																										M 111
FR NORM			3.7 S -703		-2.38																								S 78
EXTREM	95	49			0.95	0.0	0		29	01																41	N		
DATE	20	12+			26-27				7																	07			

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
9	0	0	0	14	6	10

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
2	8	2	1	0	0

+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 JUL	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9		10		11		12													13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	MNI	OCCURENCES OF WX TYPES F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	76	54	65	0	0.00	0.0	0		15	34	796	87	1	1	.	.	.	.	.	.	.	.	.	.	.	25	N	1052	0
02	77	50	64	1	0.00	0.0	0		13	17	850	93	3	3	.	.	.	.	.	.	.	.	.	.	.	18	SW	1148	0
03	82	61	72	0	0.00	0.0	0		21	18	655	72	4	4	.	.	.	.	.	.	.	.	.	.	.	31	S	1452	7
04	84	66	75	0	1.72	T	0		22	19	394	43	8	7	1	1	.	1	1	.	.	.	1	.	.	36	S	2347	10
05	85	65	75	0	0.25	0.0	0		25	24	503	55	8	8	.	1	.	.	1	.	.	.	.	.	.	45	SW	2250	10
06	78	67	73	0	0.00	0.0	0		26	25	620	68	5	7	.	.	.	.	.	.	.	.	.	.	.	41	W	0941	8
07	79	61	70	0	0.00	0.0	0		18	31	824	91	2	4	.	.	.	.	.	.	.	.	.	.	.	30	NW	1110	5
08	84	57	71	0	0.00	0.0	0		13	11	796	88	6	5	.	.	.	.	.	.	.	.	.	.	.	18	SW	1423	6
09	84	61	73	0	0.10	0.0	0		15	05	570	63	6	5	.	.	.	.	1	.	.	.	.	.	.	24	NE	1313	8
10	87	61	74	0	0.00	0.0	0		14	24	746	83	5	5	.	.	.	.	.	.	.	.	.	.	.	22	SW	1535	9
11	89	69	79	0	0.00	0.0	0		15	06	758	84	6	5	.	.	.	.	.	.	.	.	.	.	.	21	NE	1543	14
12	97	73	85	0	0.00	0.0	0		20	21	768	85	3	2	.	.	.	.	.	.	.	.	1	.	.	26	S	1728	20
13	104	81	93	0	0.00	0.0	0		14	22	900	100	0	0	.	.	.	.	.	.	.	.	1	.	.	20	W	1103	28
14	100	83	92	0	0.00	0.0	0		16	24	813	90	3	2	.	.	.	.	.	.	.	.	.	.	.	23	W	1123	27
15	98	75	87	0	0.00	0.0	0		20	36	711	79	5	5	.	1	.	.	.	.	.	.	1	.	.	26	NE	1647	22
16	93	74	84	0	0.00	0.0	0		17	26	707	79	6	6	1	.	.	.	.	.	.	.	1	.	.	26	W	1227	19
17	87	70	79	0	0.00	0.0	0		21	31	819	92	2	2	.	.	.	.	.	.	.	.	.	.	.	35	NW	1708	14
18	86	63	75	0	0.00	0.0	0		17	29	801	90	1	1	.	.	.	.	.	.	.	.	.	.	.	26	W	1049	10
19	89	63	76	0	T	0.0	0		15	22	613	69	5	5	.	.	.	.	1	.	.	.	.	.	.	22	W	1317	11
20	79	69	74	0	0.67	0.0	0		16	27	66	7	10	10	1	.	.	.	1	.	.	.	.	.	.	26	W	0323	9
21	85	63	74	0	0.00	0.0	0		12	12	796	90	2	3	1	.	.	.	.	.	.	.	.	.	.	20	E	1552	9
22	85	67	76	0	0.02	0.0	0		21	33	441	50	8	7	.	1	.	.	1	.	.	.	.	.	.	35	W	1200	11
23	87	65	76	0	0.01	0.0	0		12	15	618	70	6	6	.	1	.	.	1	.	.	.	.	.	.	24	N	0513	11
24	89	70	80	0	0.00	0.0	0		12	23	689	78	5	6	1	.	.	.	.	.	.	.	1	.	.	25	NE	1422	15
25	92	70	81	0	0.00	0.0	0		16	04	696	79	5	5	.	1	.	.	.	.	.	.	.	.	.	30	S	1858	16
26	87	70	79	0	0.18	0.0	0		16	23	506	58	8	7	.	1	.	.	1	.	.	.	.	.	.	26	SW	0242	14
27	90	70	80	0	0.22	0.0	0		30	33	678	77	6	6	1	1	.	.	1	.	.	.	.	.	.	41	NW	1847	15
28	89	71	80	0	0.00	0.0	0		20	34	842	96	1	2	1	.	.	.	.	.	.	.	.	.	.	35	S	0018	15
29	95	69	82	0	0.00	0.0	0		12	24	873	100	0	0	.	.	.	.	.	.	.	.	.	.	.	18	W	1258	17
30	96	70	83	0	0.00	0.0	0		10	17	871	100	0	0	.	.	.	.	.	.	.	.	1	.	.	20	SW	1507	18
31	95	74	85	0	0.00	0.0	0		22	30	693	80	3	3	1	.	.	.	.	.	.	.	1	.	.	32	NW	2313	20
TOTAL	2728	2082	M	1							27681*																	M	398
			S	1	3.17	T					21413		133	132	8	8	0	1	9	0	0	0	8	0	0			S	665
AVG	88.0	67.2	77.6									77	4.3	4.3															
DEPART.			M	-4																								M	139
FR NORM		4.4	S	-4	-0.49																							S	217
EXTREM	104	50			1.72	trace	0		30	33																45	SW		
DATE	13	2			04-05	04				27																	05		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	CLDY	CLDY
10	0	0	0	13	13	5

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
1	8	6	2	1	0

\+ Indicates measurement >= threshold value

FIELD:
- (8) Water equivalent of snow and ice on ground.
- (9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
- (9&13) Wind speeds are in miles per hour.
- (10) * = Total possible sunshine
- (11) S-S indicates sunrise to sunset and M-M midnight to midnight.
- (12) Entry of 1 indicates occurrence of weather. Weather types are:
  F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
- (4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 AUG	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9	10	11				12										13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	MM	OCCURENCES OF WX TYPES F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	81	70	76	0	0.08	0.0	0		17	35	480	55	8	9	.	1	.	.	1	.	.	.	.	.	.	21	NE	1812	11
02	79	70	75	0	0.11	0.0	0		10	07	67	8	10	10	1	.	.	.	1	.	.	.	.	.	.	14	SE	1923	10
03	78	71	75	0	0.12	0.0	0		12	20	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	14	S	0730	10
04	85	69	77	0	0.30	0.0	0		13	24	289	34	10	10	1	1	.	.	1	.	.	.	1	.	.	22	N	2016	12
05	87	66	77	0	0.00	0.0	0		13	07	749	87	4	5	1	.	.	.	.	.	.	.	1	.	.	16	NE	1930	12
06	88	71	80	0	0.00	0.0	0		14	08	355	41	9	9	1	.	.	.	.	.	.	.	1	.	.	18	E	1517	15
07	86	73	80	0	T	0.0	0		14	12	585	69	7	6	1	1	.	.	1	.	.	.	1	.	.	24	S	0845	15
08	88	71	80	0	0.00	0.0	0		15	08	544	64	7	5	1	.	.	.	.	.	.	.	1	.	.	17	E	1925	15
09	80	69	75	0	0.15	0.0	0		13	11	0	0	10	9	1	1	.	.	1	.	.	.	1	.	.	23	E	1211	10
10	89	70	80	0	T	0.0	0		13	28	537	63	9	8	.	.	.	.	1	.	.	.	.	.	.	29	W	1032	15
11	93	72	83	0	0.00	0.0	0		13	21	768	91	5	3	.	.	.	.	.	.	.	.	.	.	.	17	S	1503	18
12	98	75	87	0	0.00	0.0	0		10	25	746	89	3	2	.	.	.	.	.	.	.	.	.	.	.	15	W	1437	22
13	96	77	87	0	0.00	0.0	0		18	23	709	85	1	1	.	.	.	.	.	.	.	.	.	.	.	30	S	2033	22
14	95	79	87	0	0.00	0.0	0		17	24	720	86	3	3	.	1	.	.	.	.	.	.	.	.	.	29	SW	1223	22
15	87	70	79	0	1.07	0.0	0		21	30	525	63	7	7	.	1	.	.	1	.	.	.	.	.	.	32	NW	0958	14
16	94	73	84	0	1.24	0.0	0		23	16	412	50	8	8	1	1	.	.	1	.	.	.	1	.	.	28	S	1352	19
17	93	72	83	0	0.20	0.0	0		13	04	609	73	6	5	1	1	.	.	1	.	.	.	1	.	.	23	NE	1600	18
18	90	73	82	0	0.00	0.0	0		9	05	664	80	5	5	1	.	.	.	.	.	.	.	1	.	.	15	NE	1545	17
19	89	72	81	0	0.02	0.0	0		17	02	352	43	9	8	1	1	.	.	1	.	.	.	1	.	.	30	NE	1228	16
20	83	65	74	0	0.00	0.0	0		14	01	679	83	4	3	.	.	.	.	.	.	.	.	.	.	.	18	N	0744	9
21	89	62	76	0	0.00	0.0	0		10	36	785	96	0	0	.	.	.	.	.	.	.	.	.	.	.	15	NW	1543	11
22	83	65	74	0	0.00	0.0	0		13	08	751	92	2	1	.	.	.	.	.	.	.	.	.	.	.	15	E	0948	9
23	88	60	74	0	0.00	0.0	0		14	21	749	92	2	2	.	.	.	.	.	.	.	.	.	.	.	20	S	0804	9
24	82	70	76	0	T	0.0	0		13	03	407	50	7	4	.	.	.	.	1	.	.	.	.	.	.	18	NE	1417	11
25	90	73	82	0	0.00	0.0	0		13	12	583	72	5	5	.	.	.	.	.	.	.	.	1	.	.	15	S	1327	17
26	91	69	80	0	0.00	0.0	0		9	12	669	83	2	1	.	.	.	.	.	.	.	.	1	.	.	15	E	1519	15
27	88	68	78	0	0.00	0.0	0		12	09	541	67	4	3	1	.	.	.	.	.	.	.	1	.	.	17	E	1446	13
28	82	69	76	0	0.20	0.0	0		32	01	362	45	7	6	1	1	.	.	1	.	.	.	1	.	.	53	N	1004	11
29	88	73	81	0	0.00	0.0	0		13	05	449	56	9	8	1	.	.	.	.	.	.	.	1	.	.	15	NE	1612	16
30	92	74	83	0	0.00	0.0	0		16	23	616	77	3	4	1	.	.	.	.	.	.	.	1	.	.	23	SW	1429	18
31	87	68	78	0	0.00	0.0	0		16	22	547	69	6	6	.	.	.	.	.	.	.	.	1	.	.	24	SW	0134	13
				M	0						25742*																	M	445
TOTAL	2719	2179		S	1	3.49	0.0				16249		182	166	16	10	0	0	13	0	0	0	17	0	0			S	1110
AVG	87.7	70.3	79.0									63	5.9	5.4														
DEPART.				M	-19																							M	219
FR NORM			7.3	S	-23	-0.73																						S	436
EXTREM	98	60				1.43	0.0	0	32	01															53	N		
DATE	12	23				16-17				28																28			

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
10	0	0	0	8	13	10

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
3	10	8	2	2	0

+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 SEP	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9	10	11	12												13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD DIR	SUNSHINE HRS	%	SKY ISS	MMI	F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK SPD	PEAK DIR	GUST TIME	COOL DEG
01	80	57	69	0	0.00	0.0	0		14 02	743	94	1	2												22	N	1110	4
02	82	54	68	0	0.00	0.0	0		13 25	727	92	2	3												18	W	1539	3
03	84	59	72	0	0.00	0.0	0		10 09	703	90	4	3												16	E	1612	7
04	88	62	75	0	0.00	0.0	0		9 21	723	92	1	0												15	S	1424	10
05	90	62	76	0	0.00	0.0	0		13 21	691	89	3	4	1									1		20	S	1128	11
06	82	67	75	0	T	0.0	0		21 21	240	31	10	9					1							37	SW	1753	10
07	68	56	62	3	0.67	0.0	0		24 03	0	0	10	10	1				1							36	NE	1322	0
08	65	55	60	5	0.00	0.0	0		17 05	534	69	6	7												31	NE	1240	0
09	69	48	59	6	0.00	0.0	0		13 36	751	98	2	2												20	NE	1458	0
10	64	46	55	10	0.00	0.0	0		16 05	740	97	2	3												22	NE	0812	0
11	73	45	59	6	0.00	0.0	0		8 10	661	87	6	5												16	S	1408	0
12	77	53	65	0	T	0.0	0		10 25	432	57	9	9					1							17	SW	1327	0
13	83	63	73	0	0.00	0.0	0		21 24	642	85	3	4	1											29	SW	1329	8
14	79	53	66	0	0.00	0.0	0		17 03	676	90	1	1												25	NW	1120	1
15	77	54	66	0	0.00	0.0	0		12 17	670	89	6	6												17	S	2245	1
16	85	61	73	0	0.02	0.0	0		17 22	614	82	2	4					1							25	W	1732	8
17	66	44	55	10	0.00	0.0	0		18 04	698	94	4	4												25	NE	1141	0
18	69	44	57	8	0.00	0.0	0		10 07	503	68	7	5												17	E	1642	0
19	71	56	64	1	0.01	0.0	0		14 06	30	4	10	9					1							20	NE	2032	0
20	60	50	55	10	0.00	0.0	0		16 36	0	0	10	10	1											23	N	2307	0
21	50	41	46	19	0.32	0.0	0		20 35	0	0	10	10	1				1							30	N	1336	0
22	52	32	42	23	0.00	0.0	0		16 29	604	83	4	4												28	W	1037	0
23	58	29	44	21	0.00	0.0	0		9 06	626	86	5	4												14	SE	1510	0
24	62	37	50	15	0.00	0.0	0		12 11	505	70	8	9												17	E	1525	0
25	69	43	56	9	0.00	0.0	0		14 20	384	53	7	6												23	SW	1217	0
26	76	45	61	4	0.00	0.0	0		16 23	520	72	7	6												25	SW	1455	0
27	81	53	67	0	0.00	0.0	0		10 26	605	84	0	1												17	W	1149	2
28	81	53	67	0	0.00	0.0	0		13 18	608	85	0	1												20	SW	1225	2
29	80	58	69	0	0.00	0.0	0		17 16	483	68	8	7												24	S	2145	4
30	84	65	75	0	0.02	0.0	0		21 19	477	67	7	7					1							32	S	1125	10
TOTAL	2205	1545	M 150 S 151		1.04	0.0				22459* 15590		155	155	5	0	0	0	7	0	0	0	1	0	0			M 81 S 1191
AVG	73.5	51.5	62.5								69	5.2	5.2														
DEPART. FR NORM			M 66 -1.9 S 43		-2.78																					M 15 S 451	
EXTREM	90	29			0.67	0.0	0		24 03																37	SW		
DATE	5	23			07				7																	06		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
1	0	2	0	11	11	8

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
2	5	2	1	0	0

+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE	INDEX	DIV
94846	1995 OCT	CHICAGO,IL	11	1549	02

FIELD:	1	2	3	4	5	6	7	8	9	10	11			12											13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	MNI	F	OCCURENCES OF WX TYPES T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	75	56	66	0	0.14	0.0	0		23	27	453	64	4	4	1	.	.	.	1	.	.	.	.	.	.	36	SW	0949	1
02	78	50	64	1	0.00	0.0	0		12	09	552	79	1	3	.	.	.	.	.	.	.	.	.	.	.	12	E	1833	0
03	71	51	61	4	0.06	0.0	0		10	17	234	33	9	7	1	.	.	.	1	.	.	.	.	.	.	10	S	0350	0
04	69	47	58	7	0.00	0.0	0		14	05	609	87	0	2	1	.	.	.	.	.	.	.	.	.	.	15	E	2006	0
05	60	56	58	7	0.03	0.0	0		20	05	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	32	NE	0822	0
06	61	53	57	8	1.04	0.0	0		18	17	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	29	S	0801	0
07	53	46	50	15	T	0.0	0		18	27	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	21	W	0623	0
08	63	42	53	12	T	0.0	0		10	13	464	68	5	6	.	.	.	.	1	.	.	.	.	.	.	13	SW	1052	0
09	73	49	61	4	0.00	0.0	0		15	21	477	70	2	3	.	.	.	.	.	.	.	.	.	.	.	18	SE	1335	0
10	71	43	57	8	0.00	0.0	0		9	24	505	74	1	1	.	.	.	.	.	.	.	.	.	.	.	12	S	1336	0
11	79	46	63	2	0.00	0.0	0		16	22	618	91	0	0	.	.	.	.	.	.	.	.	.	.	.	22	S	1253	0
12	83	55	69	0	0.00	0.0	0		16	21	675	100	0	0	1	.	.	.	.	.	.	.	1	.	.	23	S	1527	4
13	83	52	68	0	0.08	0.0	0		21	20	654	97	1	3	.	1	.	.	1	.	.	.	.	.	.	31	SW	0951	3
14	52	43	48	17	0.14	0.0	0		21	27	58	9	9	7	.	.	.	.	1	.	.	.	.	.	.	36	W	1236	0
15	56	36	46	19	0.00	0.0	0		16	30	613	92	0	0	.	.	.	.	.	.	.	.	.	.	.	22	W	1336	0
16	60	36	48	17	0.00	0.0	0		14	28	663	100	0	1	.	.	.	.	.	.	.	.	.	.	.	17	W	1034	0
17	74	45	60	5	0.00	0.0	0		24	20	374	57	9	7	.	.	.	.	.	.	.	.	.	.	.	38	S	1108	0
18	63	53	58	7	0.00	0.0	0		13	07	508	77	3	7	.	.	.	.	.	.	.	.	.	.	.	18	E	1346	0
19	79	49	64	1	0.82	0.0	0		25	22	368	56	9	8	1	1	.	.	1	.	.	.	.	.	.	38	SW	1447	0
20	49	40	45	20	0.55	T	0		17	29	0	0	10	10	1	.	.	.	1	1	.	.	.	.	.	22	W	1619	0
21	43	36	40	25	0.08	0.0	0		15	25	0	0	10	10		.	.	.	1	.	.	.	.	.	.	32	W	1356	0
22	60	35	48	17	0.00	0.0	0		13	22	493	76	7	5	.	.	.	.	.	.	.	.	.	.	.	20	SW	1318	0
23	71	48	60	5	0.21	0.0	0		30	21	374	58	6	6	.	.	.	.	1	.	.	.	.	.	.	46	S	1817	0
24	49	34	42	23	0.00	0.0	0		29	22	0	0	10	7	.	.	.	.	.	.	.	.	.	.	.	47	SW	0413	0
25	60	33	47	18	0.00	0.0	0		18	22	465	73	3	2	.	.	.	.	.	.	.	.	.	.	.	26	S	1438	0
26	62	39	51	14	0.07	0.0	0		16	17	181	28	9	7	1	.	.	.	1	.	.	.	.	.	.	22	S	2307	0
27	58	49	54	11	0.40	0.0	0		25	23	299	47	9	9	1	.	.	.	1	.	.	.	.	.	.	36	SW	0609	0
28	51	40	46	19	0.13	0.0	0		14	30	92	15	10	9	1	.	.	.	1	.	.	.	.	.	.	18	NW	1624	0
29	53	34	44	21	0.01	0.0	0		17	29	551	87	2	4	.	.	.	.	1	.	.	.	.	.	.	26	W	1059	0
30	45	40	43	22	0.24	0.0	0		12	08	0	0	10	10	.	.	.	.	1	.	.	.	.	.	.	16	NE	2239	0
31	50	40	45	20	0.20	0.0	0		15	05	0	0	10	10	1	.	.	.	1	.	.	.	.	.	.	21	NE	1135	0
TOTAL	1954	1376	M 349								20564*																	M 8
			S	500	4.20	T					10280		179	178	13	2	0	0	18	1	0	0	1	0	0			S 1199
AVG	63.0	44.4	53.7										50	5.8	5.7													
DEPART.			M -42																									M -4
FR NORM		0.9	S	1	1.79																							S 447
EXTREM	83	33			1.37	trace	0		30	21															47	SW		
DATE	13+	25			19-20	20				23																24		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
0	0	0	0	12	4	15

	PRECIPITATION .01+	.10+	.50+	1.00+	SNOW 1.0+
T					
2	16	10	3	1	0

+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 NOV	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9	10	11	12													13		14	15
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	MMI	F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK SPD	DIR	GUST TIME	COOL DEG
01	62	49	56	9	0.63	0.0	0		18	18	0	0	10	10	1	.	.	.	1	.	.	.	1	.	.	30	SW	2022	0
02	60	29	45	20	0.04	0.0	0		17	27	0	0	10	9	1	.	.	.	1	.	.	.	.	.	.	31	W	2209	0
03	33	27	30	35	0.00	0.0	0		21	26	212	34	9	7	.	.	.	.	.	.	.	.	.	.	.	38	W	0223	0
04	33	20	27	38	T	T	0		15	29	158	26	7	4	.	.	.	.	.	1	.	.	.	.	.	23	W	1202	0
05	37	20	29	36	0.00	0.0	0		18	19	78	13	10	7	.	.	.	.	.	.	.	.	.	.	.	23	SW	1313	0
06	50	31	41	24	T	0.0	0		23	19	223	37	6	7	1	.	.	.	1	.	.	.	.	.	.	33	S	1303	0
07	47	30	39	26	T	T	0		18	30	158	26	4	6	1	.	.	.	.	1	.	.	.	.	.	31	NW	1838	0
08	32	18	25	40	0.00	0.0	0		18	30	289	48	1	1	.	.	.	.	.	.	.	.	.	.	.	29	NW	1227	0
09	48	17	33	32	T	T	0		26	18	105	17	10	8	1	.	.	.	.	1	.	.	.	.	.	40	S	2201	0
10	55	36	46	19	2.37	0.0	0		23	20	0	0	10	9	1	1	.	.	1	.	.	.	.	.	.	45	S	0452	0
11	36	17	27	38	0.21	1.9	1	0.2	25	32	108	18	8	6	1	.	.	.	1	1	.	.	.	1	.	39	N	0535	0
12	28	14	21	44	T	T	2	0.0	17	19	124	21	10	9	.	.	.	.	.	1	.	.	.	.	.	21	S	1013	0
13	31	18	25	40	0.00	0.0	1		13	36	86	14	10	7	1	.	.	.	.	.	.	.	.	.	.	16	N	0447	0
14	37	18	28	37	0.00	0.0	1		9	35	552	93	1	1	.	.	.	.	.	.	.	.	.	.	.	13	NW	1907	0
15	34	20	27	38	T	T	1		17	30	121	21	5	6	1	.	.	.	.	1	.	.	.	.	.	23	NW	1114	0
16	37	27	32	33	0.04	0.4	1		14	33	94	16	9	9	1	.	.	.	.	1	.	.	.	.	.	15	NW	0758	0
17	38	32	35	30	0.03	T	0		13	14	0	0	10	10	1	.	1	.	1	.	.	.	.	.	.	15	SE	1228	0
18	39	34	37	28	0.00	0.0	0		10	31	0	0	10	10	1	.	.	.	.	.	.	.	.	.	.	15	NW	0611	0
19	48	29	39	26	0.00	0.0	0		23	20	340	58	8	7	1	.	.	.	.	.	.	.	.	1	.	36	S	2242	0
20	53	35	44	21	T	T	0		23	29	162	28	3	6	1	.	.	.	.	1	.	.	.	.	.	38	W	2002	0
21	35	22	29	36	T	T	T		21	28	55	10	9	7	.	.	.	.	.	1	.	.	.	.	.	33	NW	0732	0
22	36	19	28	37	T	T	0		20	20	0	0	9	7	.	.	.	.	.	1	.	.	.	.	.	24	S	1623	0
23	33	20	27	38	0.00	0.0	0		15	33	422	74	4	6	.	.	.	.	.	.	.	.	.	.	.	23	NW	0206	0
24	34	13	24	41	0.00	0.0	0		21	21	385	67	4	5	.	.	.	.	.	.	.	.	.	.	.	32	SW	2345	0
25	49	32	41	24	0.00	0.0	0		21	21	441	77	2	5	.	.	.	.	.	.	.	.	.	.	.	33	SW	0229	0
26	50	35	43	22	0.00	0.0	0		12	04	69	12	10	9	.	.	.	.	.	.	.	.	1	.	.	16	SE	1523	0
27	42	26	34	31	0.36	1.6	0		28	02	0	0	10	10	1	.	1	.	1	1	.	.	1	.	.	37	N	1406	0
28	29	13	21	44	0.00	0.0	2	0.2	17	34	435	77	4	3	.	.	.	.	.	.	.	.	.	.	.	24	NW	0004	0
29	33	11	22	43	0.00	0.0	2		8	17	179	32	5	5	.	.	.	.	.	.	.	.	.	.	.	13	S	2335	0
30	48	25	37	28	T	0.0	1		21	19	106	19	9	8	.	.	.	.	1	.	.	.	.	.	.	33	SW	2334	0
TOTAL	1227	737		M 958 S 1458	3.68	3.9					17678* 4902		217	204	15	1	2	0	8	11	0	0	4	1	0				M 0 S 1199
AVG	40.9	24.6	32.8									28	7.2	6.8														
DEPART. FR NORM			-7.2	M 208 S 209	0.76																							M 0 S 447
EXTREM	62	11			2.57	1.9	2		28	02																45	S		
DATE	1	29			10-11	11	29+			27																	10		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
0	4	25	0	4	8	18

PRECIPITATION T	.01+	.10+	.50+	1.00+	SNOW 1.0+
10	7	4	2	1	2

\+ Indicates measurement >= threshold value

FIELD:
(8) Water equivalent of snow and ice on ground.
(9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
(9&13) Wind speeds are in miles per hour.
(10) * = Total possible sunshine
(11) S-S indicates sunrise to sunset and M-M midnight to midnight.
(12) Entry of 1 indicates occurrence of weather. Weather types are:
F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail;
R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze;
BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
(4&15) M=Monthly degree day total; S=Seasonal degree day total.

1

SUMMARY OF DAY FORM NO.5670

WBAN#	YRMO	STATION NAME	STATE INDEX DIV
94846	1995 DEC	CHICAGO,IL	11 1549 02

FIELD:	1	2	3	4	5	6	7	8	9	10	11	12												13	14	15
												OCCURENCES OF WX TYPES														
DAY	MAX TMP	MIN TMP	MEAN TMP	HTG DEG	PCPN	SNOW FALL	ON GRD	WTR EQV	FASTMILE SPD	DIR	SUNSHINE HRS	%	SKY ISS	MMI	F	T	IP	A	R	S	Z	D	KH	BS	HF	PEAK GUST SPD	DIR	TIME	COOL DEG
01	48	25	37	28	0.00	0.0	0		20	22	509	91	1	1	.	.	.	.	.	.	.	.	.	.	.	25	SW	0040	0
02	57	25	41	24	0.00	0.0	0		18	17	251	45	8	7	.	.	.	.	.	.	.	.	.	.	.	29	S	2224	0
03	57	35	46	19	0.00	0.0	0		15	25	494	88	6	5	1	.	.	.	.	.	.	.	1	.	.	23	W	1857	0
04	43	29	36	29	0.00	0.0	0		16	15	113	20	8	8	.	.	.	.	.	.	.	.	.	.	.	29	SE	2108	0
05	45	26	36	29	0.07	0.0	0		25	29	415	75	4	4	.	.	.	.	1	.	.	.	.	.	.	44	W	1335	0
06	33	23	28	37	0.00	0.0	0		18	27	82	15	9	6	.	.	.	.	.	.	.	.	.	.	.	30	W	1256	0
07	31	18	25	40	0.00	0.0	0		14	29	552	100	0	0	.	.	.	.	.	.	.	.	.	.	.	21	W	0334	0
08	30	4	17	48	0.15	2.8	0		26	29	0	0	10	9	1	.	.	.	.	1	.	.	.	1	.	38	NW	2353	0
09	5	-4	1	64	0.01	0.2	3	0.1	26	26	153	28	10	9	.	.	.	.	.	1	.	.	.	1	.	41	W	1828	0
10	14	0	7	58	0.00	0.0	1		17	28	463	84	1	2	.	.	.	.	.	.	.	.	.	.	.	29	W	1516	0
11	8	1	5	60	0.10	2.3	T		14	29	287	52	10	7	1	.	.	.	.	1	.	.	.	.	.	18	NW	0014	0
12	24	7	16	49	0.06	1.4	3	0.1	12	12	0	0	10	10	1	.	.	.	.	1	.	.	.	.	.	17	SE	1831	0
13	36	22	29	36	0.07	0.5	4	0.2	20	12	0	0	10	10	1	.	.	.	1	1	1	.	.	.	.	23	SE	1533	0
14	45	31	38	27	T	0.0	1		16	27	0	0	10	8	1	.	.	.	1	.	.	.	1	.	.	29	W	0410	0
15	42	25	34	31	0.00	0.0	0		9	32	226	41	8	5	1	.	.	.	.	.	.	.	.	.	.	15	NW	0917	0
16	36	18	27	38	0.00	0.0	0		8	02	411	75	3	4	.	.	.	.	.	.	.	.	.	.	.	13	N	0547	0
17	38	20	29	36	0.00	0.0	0		16	09	440	80	10	9	.	.	.	.	.	.	.	.	.	.	.	24	E	2328	0
18	37	33	35	30	T	T	0		23	04	0	0	10	10	1	.	.	.	.	1	.	.	.	.	.	35	NE	2218	0
19	34	26	30	35	0.00	0.0	0		28	04	24	4	9	9	.	.	.	.	.	.	.	.	.	.	.	40	NE	0723	0
20	31	22	27	38	T	T	0		16	31	402	73	2	5	.	.	.	.	.	1	.	.	.	.	.	24	W	1748	0
21	31	17	24	41	0.00	0.0	0		14	34	309	56	5	6	.	.	.	.	.	.	.	.	.	.	.	18	NW	0132	0
22	29	15	22	43	T	T	0		10	28	154	28	8	7	.	.	.	.	.	1	.	.	.	.	.	17	W	1142	0
23	30	23	27	38	0.01	0.1	T		14	30	19	3	10	10	.	.	.	.	.	1	.	.	.	.	.	17	NW	2322	0
24	28	22	25	40	0.01	0.1	0		17	25	0	0	10	10	1	.	.	.	.	1	1	.	1	.	.	24	W	1203	0
25	31	14	23	42	0.02	0.2	T		15	30	157	29	7	6	.	.	.	.	.	1	.	.	.	.	.	22	NW	0858	0
26	28	14	21	44	0.01	0.2	0		15	33	0	0	10	10	1	.	1	.	.	1	.	.	.	.	.	23	NW	2244	0
27	30	16	23	42	T	0.2	T		15	34	442	81	5	6	1	.	.	.	.	1	.	.	.	.	.	21	NW	0115	0
28	33	12	23	42	0.00	0.0	0		10	24	503	92	0	1	.	.	.	.	.	.	.	.	.	.	.	16	W	1343	0
29	36	15	26	39	0.00	0.0	0		17	22	388	71	7	6	.	.	.	.	.	.	.	.	.	.	.	25	SW	1337	0
30	35	24	30	35	0.05	1.3	0		14	18	0	0	10	9	1	.	.	.	.	1	.	.	.	.	.	18	S	1647	0
31	36	32	34	31	0.03	0.6	2		9	03	0	0	10	10	1	.	.	.	.	1	.	.	.	.	1	14	S	0001	0
TOTAL	1041	590		M1193 S 2651	0.59	9.9					17078* 6794		221	209	13	0	1	0	3	15	2	0	3	2	1				M 0 S 1199
AVG	33.6	19.0	26.3									40	7.1	6.7															
DEPART.				M 3																									M 0
FR NORM			-0.3	S 212	-1.88																								S 447
EXTREM	57	-4			0.15	2.8	4		28	04																44	W		
DATE	3+	9			08	08-09	13+			19																	05		

NUMBER OF DAYS WITH:

MAX >=90	MAX <=32	MIN <=32	MIN <=0	PTLY CLEAR	PTLY CLDY	CLDY
0	14	29	2	6	6	19

PRECIPITATION T	PRECIPITATION .01+	PRECIPITATION .10+	PRECIPITATION .50+	PRECIPITATION 1.00+	SNOW 1.0+
5	12	2	0	0	4

+ Indicates measurement >= threshold value

FIELD:
- (8) Water equivalent of snow and ice on ground.
- (9) Directions in tens of degrees = speeds are fastest observed 1-minute values.
- (9&13) Wind speeds are in miles per hour.
- (10) * = Total possible sunshine
- (11) S-S indicates sunrise to sunset and M-M midnight to midnight.
- (12) Entry of 1 indicates occurrence of weather. Weather types are: F=fog, visibility more than 1/4 mile; T=thunderstorm; IP=ice pellets; A=hail; R=rain; S=snow; Z=glaze; D=dust,visibility <=1/2 mile; KH=smoke and or haze; BS=blowing snow; HF=heavy fog (visibility 1/4 mile or less due to fog).
- (4&15) M=Monthly degree day total; S=Seasonal degree day total.

Appendix B

Soil Boring and Monitoring Well Diagrams

Beach Area

Log of Boring FTRSB02

Fort Sheridan
Fort Sheridan, IL
Project Number: 490-2087

Client: *USAEC*	
Drilling Company: *Environmental Science and Engineering, Inc*	
Drilling Rig: *none*	**Drilling Method:** *4" dia. hand auger*
Soil Sampling Device: *2" I.D. slide hammer split-spoon*	**Borehole Diameter (in.):** *4*
Date Started: *11/09/95* **Date Completed:** *11/09/95*	**Total Depth Drilled (ft.):** *5.5*
Apparent Depth to Saturation While Drilling (ft. bgl): *5.0*	**Ground Elevation (ft.):** *587.24*

Completion Information

Grout Interval (ft. bgl): 0-5.5	**Grout Type:** Hydrated Granular Bentonite

NO WELL INSTALLED

Explanation & Comments

SI = Sample Interval
ND = Not Detected
NA = Not Available

Fort Sheridan

Log of Boring FTRSB02

Depth (feet bgl)	Blow Counts	Sample Recovery (%)	PID or FID (ppm) Values	PID or FID (ppm) Profile	Soil/Rock Description and Comments	USCS Classification	Lithologic Log	Borehole Completion	Elevation (ft.)
0	SI								587.2
2		NA			**Sand** poorly graded, coarse grained, tan, 10YR6/3, dry to moist above saturation (Saturated at 5.0 feet bgl)	SP		hydrated bentonite	585.2
4	SI								583.2
6					End of Boring				581.2
8									579.2
10									577.2
12									575.2
14									573.2
16									571.2

Fort Sheridan RI/FS — Log of Well LF2SB4/MW4d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
15	18	1.98		CH			
	35		Clay: 25% silt, <5% small gravel, dark grey (10YR4/1), high plasticity, hard, moist	CH			Sample from 16 to 18 feet was obtained at 1402 hours. PID reading of the breathing air at 1400 hours was 0.0 ppm.
	6						
	12	1.9					
	20						
	24		Clay: 25% silt, dark grey (10YR4/1), hard, moist, cobble from 19.6 to 19.8 feet	CL			Sample from 18 to 20 feet was obtained at 1429 hours. PID reading of the breathing air at 1430 hours was 0.0 ppm.
	4						
	12	2.0					
	18						
20	26		Interval was not sampled or logged	NL			No sample was obtained from 20 to 23 feet.
	5		Clay 30% silt, <5% small gravel, dark grey (10YR4/1), medium plasticity, hard, moist, a small seam from 23.25 to 23.75 feet had a silt content of 50%	CL			Sample from 23 to 25 feet was obtained at 1457 hours.
	7	2.0					
	8						
25	9		Clay: 40% silt, greyish brown (10YR5/2), high plasticity, firm, moist	CH			Sample from 25 to 27 feet was obtained at 1517 hours.
	10						
	11	2.0					
	13						
	22		Clay: 30% silt, 5% gravel, greyish brown (10YR5/2), firm, moist	CH			Sample from 27 to 29 feet was obtained at 1652 hours. Drilling was stopped for the day at 1700 hours after drilling to 29 feet.
	3						
	5	2.0					
	8						
	10						
	5	1.61	Clay: 25% silt, 10% gravel, grey (10YR5/1), firm, moist	CH			Water level in the borehole was 23.0 feet at 0855 hours (1/09/91). Started drilling at 0947 hours on January 9, 1991.
30	8						

SP

Fort Sheridan RI/FS

Log of Well LF2SB4/MW4d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
30	16 30	1.61		CH		SP	Sample from 29 to 31 feet was obtained at 0951 hours.
35							
40							
45							

Log of Well LF2SB4/MW4d

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device: 3" x 2' Split Spoon	
Date Started: 1/08/91 Date Completed: 1/09/91	Total Depth Drilled: 31.0
Water Level While Drilling (bgl): 5.6	Ground Elevation: 588.250

Completion Information

Water Level At Completion (bgl): 23.0	Date: 1/09/91
Screened Interval: 19.95-29.98	Filter Pack Interval: 14.54-30.85
Screen Length: 10.03	Bentonite Seal Interval: 9.50-14.54
End Cap Length: 0.35	Grout Interval: 0-9.50
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 22.55	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 590.847	Protective Casing Length/AG: 5.0/2.75

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/08/91	1045	1700	0	29
1/09/91	0947	1005	29	31

Abbreviations

Abbr.	Meaning
FM	fill material
NL	not logged
sched	schedule
PID	photoionization detector
ppm	parts per million
S P	Sand Pack

Location Sketch

Fort Sheridan RI/FS

Log of Well LF2SB4/MW4d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0	23	1.87	**Sand;** medium, 10% medium to coarse gravel, very pale brown (10YR7/3), non-plastic, medium dense, moist, gravel and sand zone from 0.4 to 0.8 feet, clay seam from 1.4 to 1.5 feet, subrounded, Beach Deposit	SW		2.75' .65'2	Weather at time of drilling was approximately 20°, breezy and overcast on January 8, 1991. Munsell color chart was referenced in each description. Frost zone was approximately 1.25 feet thick.
	22						
	8						
	3						Sample from 0 to 2 feet was obtained at 1049 hours.
	3	1.81	**Sand:** medium, 10% medium to coarse gravel, very pale brown (10YR7/3), non-plastic, medium dense, subrounded, Beach Deposit	SW			
	8		**Gravelly Sand:** medium, 35% medium gravel, yellowish brown (10YR5/4), non-plastic, dense, moist, subrounded, Beach Deposit	GP			Sample from 2 to 4 feet was obtained at 1117 hours. PID reading of the breathing air at 1130 hours was 0.0 ppm.
	14						
	19						
	18		**Gravelly Sand:** medium, 35% medium gravel, yellowish brown (10YR5/4), non-plastic, very dense, saturated at 5.6 feet, rounded, Beach Deposit	SW			Sample from 4 to 6 feet was obtained at 1140 hours. Water was encountered at a depth of 5.6 feet. A cobble was present in the nose of the sampling spoon.
5	22	2.0					
	27						
	39		**Cobble:** limestone	FM			
	10		**Gravelly Sand:** medium, 20% medium to coarse gravel, <5% clay, yellowish brown (10YR5/4), non-plastic, medium dense, saturated, subrounded, Beach Deposit	GC			Sample from 6 to 8 feet was obtained at 1200 hours. PID reading of the breathing air at 1200 hours was 0.0 ppm. There was a distinct change in drilling pressure upon changing from sand to clay.
	11	1.68					
	8		**Clay:** 20% silt, 5% gravel, greyish brown (10YR5/2), medium plasticity, very hard, moist	CL			
	16						
	9		**Clay:** 15% silt, 5% small gravel, greyish brown (10YR5/2), medium plasticity, very hard, moist	CL			Sample from 8 to 10 feet was obtained at 1219 hours. PID reading of the breathing air at 1230 hours was 0.0 ppm.
	14	1.65					
	23						
10	27						
	5		**Clay:** 20% silt, <5% small gravel, dark grey (10YR4/1), high plasticity, hard, moist	CH			Sample from 10 to 12 feet was obtained at 1250 hours. PID reading of the breathing air at 1300 hours was 0.0 ppm.
	11	1.40					
	16						
	28						
	5		**Clay:** 15% silt, <5% small gravel, grey (10YR5/1), high plasticity, hard, moist	CH			Sample from 12 to 14 feet was obtained at 1320 hours. PID reading of the breathing air at 1330 hours was 0.0 ppm.
	12	1.84					
	17						
	22						
	6	1.98	**Clay:** 30% silt, 15% small gravel, dark grey (10YR4/1), high plasticity, hard, moist	CH			Sample from 14 to 16 feet was obtained at 1337 hours.
15	12						

Cement Grout

Bentonite Hole Plug

SP

Log of Well LF2SB4/MW4s

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device:	
Date Started: 1/09/91 Date Completed: 1/09/91	Total Depth Drilled: 9.59
Water Level While Drilling (bgl): 5.5	Ground Elevation: 588.205

Completion Information

Water Level At Completion (bgl): 6.0	Date: 1/09/91
Screened Interval: 4.45-9.44	Filter Pack Interval: 3.25-9.59
Screen Length: 4.99	Bentonite Seal Interval: 1.55-3.25
End Cap Length: 0.15	Grout Interval: 0-1.55
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 7.06	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 590.858	Protective Casing Length/AG: 5.02/2.7

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/09/91	1608	1645	0	9.59

Abbreviations

Abbr.	Meaning
HSA	Hollow Stem Augers
sched	schedule

Location Sketch

Fort Sheridan RI/FS — Log of Well LF2SB4/MW4s

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0		**Sand:** 10% small gravel, dark brown (10YR4/4), non-plastic, medium dense, saturated at 5.5 feet, gravel zones (medium in size) encountered at 2.0-2.5 feet and 5.5-6.0 feet, subrounded, Beach Deposit	SP		2.7' 26.3' Grout Hole Plug Sand Pack	This boring log was compiled by examination of the soil cuttings with lithology changes based on changes in drilling pressure. No soil samples were obtained from this boring, but a detailed log for this area has been compiled for the nearby deep boring - LF2SB4d.
5						
		Clay: 20% silt, 5% small gravel, grayish brown (10YR5/2), medium plasticity, moist	CL			
10						
15						

Log of Boring LF2SB5d

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device: 3" x 2' Split Spoon	
Date Started: 1/10/91 Date Completed: 1/11/91	Total Depth Drilled: 40
Water Level While Drilling (bgl): 7.3	Ground Elevation: 590.476

Completion Information

Water Level At Completion (bgl): Dry	Date: 1/11/91
Grout Interval: 0-40	

NO WELL INSTALLED

Drilling Shifts

Date	Time Start	Time End	Depth of Drilling Per Shift Start	Depth of Drilling Per Shift End
1/10/91	1325	1702	0	36
1/11/91	0820	0925	36	40

Abbreviations

Abbr.	Meaning
NL	not logged
HSA	hollow stem augers

Location Sketch

Fort Sheridan RI/FS — Log of Boring LF2SB5d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Borehole Completion	Comments
0	18 21 9 6	2.0	Sand: very pale brown (10YR7/4), non-plastic, medium dense, dry, gravel seams were encountered from 1.13 to 1.28 feet (small grained) and 1.75 to 2.0 feet (medium size), well rounded, Beach Deposit	SW			Sample from 0 to 2 feet was obtained at 1325 hours. Munsell color chart is referenced in each description.
			Interval was not sampled or logged	NL			Gravel contents of soil increases from the previous zone. No sample was obtained from 2 to 4 feet.
5	4 12 13 16	1.58	Gravelly Sand: 20% gravel, brown (10YR5/3), non-plastic, medium dense, moist, cobble encountered from 4.9 to 5.05 feet, rounded, Beach Deposit	SP			Sample from 4 to 6 feet was obtained at 1350 hours.
	9 8 7 7	1.72	Sand: 10% gravel, 10% clay, pale brown (10YR6/3), non-plastic, medium dense, saturated at 7.3 feet, subrounded, Beach Deposit	SP			Sample from 6 to 8 feet was obtained at 1402 hours. A cobble and wood was encountered from 6.6 to 6.8 feet. Clay was very soft.
			Clay: 10% silt, <5% small gravel, grey (10YR5/1), high plasticity, soft, saturated	CH			
			Interval was not sampled or logged	NL			No sample was obtained from 8 to 10 feet.
10	5 12 16 26	1.79	Clay: 20% silt, <5% gravel, grey (10YR5/1), medium plasticity, hard, moist	CL			Sample from 10 to 12 feet was obtained at 1425 hours.
			Interval was not sampled or logged	NL			No sample was obtained from 12 to 15 feet. Drilling became harder in the interval.
15				CH			

Cement Grout

Fort Sheridan RI/FS — Log of Boring LF2SB5d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Borehole Completion	Comments
15	7 13 17 23	1.87	Clay: 20% silt, <5% gravel, grey (10YR5/1), high plasticity, hard, moist	CH			Sample from 17 to 17 feet was obtained at 1445 hours.
			Interval was not sampled or logged	NL			No sample was obtained from 17 to 20 feet. Drilling became easier at approximately 17.5 feet.
20	6 14 17 28	1.94	Clay: 20% silt, 5% gravel, grey (10YR5/1), medium plasticity, hard, moist	CL			Sample from 20 to 22 feet was obtained at 1510 hours.
			Interval was not sampled or logged	NL			No sample was obtained from 22 to 25 feet. A gravel zone was encountered at 22 feet.
25	13 21 25 34	2.0	Clay: 15% silt, 5% gravel, dark grey (10YR4/1), medium plasticity, hard, moist	CL			Sample from 25 to 27 feet was obtained at 1530 hours.
			Interval was not sampled or logged	NL			No sample was obtained from 27 to 30 feet. Drilling became easier at 29.5 feet.
30				CH		Cement Grout	

Fort Sheridan RI/FS — Log of Boring LF2SB5d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Borehole Completion	Comments
30	7 9 12 13	2.0	Clay: 25% silt, dark grey (10YR4/1), high plasticity, firm, moist	CH		Cement Grout	Sample from 30 to 32 feet was obtained at 1520 hours.
	4 7 11 12	1.95	Clay: 15% silt, 10% medium gravel, <5% sand, dark grey (10YR4/1), high plasticity, firm, moist	CH			Sample from 32 to 34 feet was obtained at 1640 hours.
35	4 7 11 17	2.0	Clay: 15% silt, 5% gravel, <5% sand, dark grey (10YR4/1), high plasticity, firm, moist	CH			Sample from 34 to 36 feet was obtained at 1655 hours. Stopped drilling for day.
	9 19 26 32	1.98	Clay: 15% silt, 10% gravel, dark grey (10YR4/1), medium plasticity, hard, moist	CL			January 11, 1991 - weather 25° with freezing drizzle. Sample from 36 to 38 feet was obtained at 0910 hours.
40	10 22 29 44	2.0	Clay: 10% silt, 5% gravel, grey (10YR5/1), high plasticity, hard, moist	CH			Sample from 38 to 40 feet was obtained at 0920 hours. Drilling was completed at 40 feet. Boring was grouted to surface with a cement grout. A boring was then drilled nearby to allow the small gravel seams to be screened (LF2MW5d).
45							

Log of Well LF2SB5/MW5d

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device:	
Date Started: 1/11/91 Date Completed: 1/11/91	Total Depth Drilled: 28
Water Level While Drilling (bgl): 7.0	Ground Elevation: 590.476

Completion Information

Water Level At Completion (bgl): Dry	Date: 1/12/91
Screened Interval: 17.44-27.47	Filter Pack Interval: 12.86-27.81
Screen Length: 10.03	Bentonite Seal Interval: 7.76-12.86
End Cap Length: 0.34	Grout Interval: 0-7.76
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 20.14	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 593.178	Protective Casing Length/AG: 5.01/2.95

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/11/91	1400	1530	0	28

Abbreviations

Abbr.	Meaning
HSA	hollow stem auger

Location Sketch

Fort Sheridan RI/FS

Log of Well LF2SB5/MW5d

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0		Sand: very pale brown (10YR7/4), non-plastic, dry, well rounded, Beach Deposit	SW		2.95' .20'2	This boring log was compiled by examination of the soil cuttings with lithology changes based on changes in drilling pressure. No soil samples were obtained from this boring, but a detailed log for this area has been compiled for the nearby boring - LF2SB05d Munsell color chart is referenced in each description.
		Gravelly Sand: 20% gravel, brown (10YR5/3), non-plastic, saturated at 7.0 feet, round, Beach Deposit	SP			
5						
		Clay: 20% silt, 5% gravel, grey (10YR5/1), medium plastic, moist	CL			
10						
15						

Fort Sheridan RI/FS

Log of Well LF2SB5/MW5d

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
15						
						Drilling became easier at a depth of 7.5 feet.
20			CL			
						Gravel was encountered at a depth of 22 feet.
25						
						Drilling became harder at a depth of 27 feet.
30						

Log of Well LF2SB5/MW5s

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-:017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device:	
Date Started: 1/12/91 Date Completed: 1/12/91	Total Depth Drilled: 11.29
Water Level While Drilling (bgl): 7.5	Ground Elevation: 590.385

Completion Information

Water Level At Completion (bgl): 7.8	Date: 1/12 /91
Screened Interval: 5.95-10.94	Filter Pack Interval: 4.12-11.29
Screen Length: 4.99	Bentonite Seal Interval: 2.06-4.12
End Cap Length: 0.35	Grout Interval: 0 to 2.06
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 8.67	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 593.100	Protective Casing Length/AG: 5.02/2.90

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/12/91	1300	1400	0	11

Abbreviations

Abbr.	Meaning
HSA	hollow stem augers

Location Sketch

Fort Sheridan RI/FS

Log of Well LF2SB5/MW5s

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0		Sand: very pale brown (10YR7/4), non-plastic, medium dense, dry, well rounded, Beach Deposit	SW			This boring log was compiled by examination of the soil cuttings with lithology changes based on changes in drilling pressure. No soil samples were obtained from this boring, but a detailed log for this area has been compiled for the nearby deep boring - LF2SB05d.
		Gravelly Sand: 20% gravel, brown (10YR5/3), non-plastic, medium dense, saturated at 7.5 feet, rounded, Beach Deposit	SP		2.90' 2.15' Cement Grout, Bentonite Hole Plug, Sand Pack	
5						
		Clay: 20% silt, 5% gravel, grey (10YR5/1), medium plastic, moist	CL			
10						
15						

Log of Well LF2SB6/MW6d

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device: 3" x 2' Split Spoon	
Date Started: 1/13/91 Date Completed: 1/13/91	Total Depth Drilled: 24
Water Level While Drilling (bgl): 15	Ground Elevation: 588.109

Completion Information

Water Level At Completion (bgl): 21.0	Date: 1/13/91
Screened Interval: 13.24-23.26	Filter Pack Interval: 10.20-23.61
Screen Length: 10.02	Bentonite Seal Interval: 5.04-10.20
End Cap Length: 0.35	Grout Interval: 0-5.04
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 15.97	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 590.839	Protective Casing Length/AG: 5.01/2.83

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/13/91	0845	1423	0	24

Abbreviations

Abbr.	Meaning
HSA	hollow stem augers

Location Sketch

Fort Sheridan RI/FS

Log of Well LF2SB6/MW6d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0	13	2.0	Sand: fine grained, pale brown (10YR6/3), non-plastic, medium dense, moist (frozen), rounded, Beach Deposit	SW		2.83' 2.17' Cement Grout	Sample from 0 to 2 feet was obtained at 0850 hours. There was 1.09 feet of frost. Munsell color chart is referenced in each description.
	10						
	8		Gravel: medium, brown (10YR5/3), non-plastic, medium dense, dry, rounded, Beach Deposit	GW			
	10		Gravelly Sand: 35% gravel, dark brown (10YR4/3), non-plastic, medium dense, moist, subrounded, Beach Deposit	SW			
	5						Sample from 2 to 4 feet was obtained at 0915 hours.
	9	1.97	Gravelly Sand: 35% small to medium gravel, light yellowish brown (10YR6/4), non-plastic, medium dense, moist, rounded, Beach Deposit	SP			
	13						
	13						
	9		Gravelly Sand: fine to medium, 40% small to medium gravel, dark yellowish brown (10YR4/4), non-plastic, very dense, saturated at 5.5 feet, rounded, Beach Deposit				Sample from 4 to 6 feet was obtained at 0925 hours. Sand was saturated at 5.5 feet.
5	17	2.0		SP			
	19						
	26						
	9		Gravelly Sand: fine to medium, 35% small gravel, dark yellowish brown (10YR4/4), non-plastic, saturated, rounded, beach Deposit	SP			Sample from 6 to 8 feet was obtained at 0945 hours. Clay was encountered at 6.7 feet.
	11	1.94	Clay: 15% silt, <5% small gravel, grey (10YR5/1), medium plasticity, hard, moist	CL		Bentonite Hole Plug	
	14						
	16						
	5		Clay: 20% silt, 10% gravel, <5% sand, dark grey (10YR4/1), low plasticity, very hard, moist				Sample from 8 to 10 feet was obtained at 1000 hours.
	13	0.84		CL			
	19						
10	24						
	8		Clay: 20% silt, <5% gravel, dark grey (10YR4/1), medium plasticity, hard moist				Sample from 10 to 12 feet was obtained at 1025 hours.
	12	2.0		CL			
	21						
	25						
	6		Clay: 15% silt, <5% gravel, dark grey (10YR4/1), medium plasticity, hard, moist				Sample from 12 to 14 feet was obtained at 1040 hours.
	10	1.68		CL			
	15						
	20						
	16	2.0	Clay: 15% silt, 5% gravel, dark grey (10YR4/1), medium plasticity, hard, moist, saturated gravel zone located from 15.0 to 15.4 feet	CL		Sand Pack	Sample from 14 to 16 feet was obtained at 1115 hours. Saturated gravel zone located from 15.0 to 15.4 feet.
15	12						

Fort Sheridan RI/FS

Log of Well LF2SB6/MW6d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
15	17 19	2.0		CL			
	5 6 7	2.0	Clay: 15% silt, 10% gravel (predominately located from 16 to 17 feet), dark grey (10YR4/1), high plasticity, soft	CH			Sample from 16 to 18 feet was obtained at 1140 hours. Drilling was easier through this interval.
	13 5 8 10	2.0	Clay: 15% silt, dark grey (10YR4/1), high plasticity, firm, moist	CH			Sample from 18 to 20 feet was obtained at 1155 hours.
20	13 6 7 12	1.78	Clay: 25% silt, <5% gravel, dark grey (10YR4/1), high plasticity, firm, moist	CH			Sample from 20 to 22 feet was obtained at 1400 hours.
	15 4 7 13	1.83	Clay: 15% silt, dark grey (10YR4/1), high plasticity, hard, moist	CH			Sample from 22 to 24 feet was obtained at 1410 hours.
25							
30							

Sand Pack

Log of Well LF2SB6/MW6s

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device:	
Date Started: 1/13/91 Date Completed: 1/13/91	Total Depth Drilled: 8.85
Water Level While Drilling (bgl): 6.5	Ground Elevation: 587.952

Completion Information

Water Level At Completion (bgl): 7.72	Date: 1/13/91
Screened Interval: 3.92-8.50	Filter Pack Interval: 3.01-8.85
Screen Length: 4.98	Bentonite Seal Interval: 1.48-3.01
End Cap Length: 0.35	Grout Interval: 0-1.48
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 6.32	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 590.745	Protective Casing Length/AG: 5.02/3.1

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/13/91	1630	1715	0	8.85

Abbreviations

Abbr.	Meaning
HSA	hollow stem augers

Location Sketch

Fort Sheridan RI/FS

Log of Well LF2SB6/MW6s

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0		Gravelly Sand: small to medium gravel, yellowish brown (10YR4/4), non-plastic, saturated at 6.5 feet, Beach Deposit	SP		3.1' 2.193' Grout Hole Plug Sand Pack	This boring log was compiled by examination of the soil cuttings with lithology changes based on changes in drilling pressure. No soil samples were obtained from this boring, but a detailed log for this area has been compiled for the nearby deep boring - LF2SB06d Munsell color chart is referenced in each description.
5						A cobble was encountered from 4.5 to 5.0 feet. Saturation was encountered at 6.5 feet.
		Clay: 20% silt, 10% gravel, dark grey (10YR4/1), low plasticity, hard, moist	CL			
10						
15						

Log of Well LF2SB7/MW7d

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device: 3" x 2' Split Spoon	
Date Started: 1/14/91 Date Completed: 1/15/91	Total Depth Drilled: 34
Water Level While Drilling (bgl): 5.0	Ground Elevation: 586.747

Completion Information

Water Level At Completion (bgl): 15.4	Date: 1/15/91
Screened Interval: 21.95-31.98	Filter Pack Interval: 17.41-32.33
Screen Length: 10.03	Bentonite Seal Interval: 12.46-17.41
End Cap Length: 0.35	Grout Interval: 0-12.46
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 24.32	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 589.535	Protective Casing Length/AG: 5.01/3.1

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/14/91	1300	1700	0	26
1/15/91	0845	0950	26	34

Abbreviations

Abbr.	Meaning
HSA	hollow stem auger

Location Sketch

Fort Sheridan RI/FS — Log of Well LF2SB7/MW7d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0			Gravel: medium to large, various colors, non-plastic, dry, rounded, Beach Deposit	GW		3.1' / 21.88'	The interval from 0 to 2 feet was not sampled due to the presence of large gravel.
	4 42 32 24	1.89	Gravelly Sand: 30-50% gravel, light olive brown (2.5Y5/6), non-plastic, very dense, moist, rounded, Beach Deposit	SP			Sample from 2 to 4 feet was obtained at 1320 hours. Munsell color chart is referenced in descriptions. Zones throughout the sampling spoon have varying amounts of gravel. The sand and gravel are medium to large in size.
	6 11 14 28	1.94	Gravelly Sand: 35% small to large gravel, yellowish brown (10YR5/4), non-plastic, dense, gravel seam from 5.1 to 5.2 feet, saturated at 5.0 feet, rounded, Beach Deposit	SP			Sample from 4 to 6 feet was obtained at 1335 hours. The sand was saturated at a depth of 5.0 feet.
5							
	14 28 19	1.69	Gravelly Sand: 35% small to medium gravel, brown (10YR5/3), non-plastic, dense, saturated, cobble fron 6.9 to 7.1 feet, subrounded, Beach Deposit	SP			Sample from 6 to 8 feet was obtained at 1355 hours. Clay was encountered at 7.5 feet.
	7		BClay: 15% silt, grey (10YR5/1), high plasticity, firm, moist	CH			
	3 6 12	1.59	Clay: 15% silt, dark grey (10YR4/1), high plasticity, firm, moist	CH			Sample from 8 to 10 feet was obtained at 1415 hours.
10	19						
	6 9 14	1.80	Clay: 15% silt, 5% small gravel, dark grey (10YR4/1), high plasticity, hard, moist	CH			Sample from 10 to 12 feet was obtained at 1435 hours.
	16						
	4 9 12	2.0	Clay: 15% silt, 5% small gravel, dark grey (10YR4/1). medium plasticity, hard, moist	CL			Sample from 12 to 14 feet was obtained at 1455 hours.
	16						
	6	2.0	Clay: 15% silt, 10% small to medium gravel, dark grey (10YR4/1), high plasticity, hard, moist	CH			Sample from 14 to 16 feet was obtained at 1520 hours.
15	10						

Cement Grout

Bentonite Hole Plug

Fort Sheridan RI/FS — Log of Well LF2SB7/MW7d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
15	14 19	2.0		CH		Bentonite Hole Plug	
	4 11 12 18	1.75	Clay: 15% silt, 5% sand, <5% gravel, dark grey (10YR4/1), medium plasticity, hard, moist	CL			Sample from 16 to 18 feet was obtained at 1540 hours.
	4 7 11 17	2.0	Clay: 10% silt, 5% gravel, <5% sand, dark grey (10YR4/1), medium plasticity, hard, moist	CL			Sample from 18 to 20 feet was obtained at 1600 hours. Sample had a vertical joints filled with sand.
20	6 10 12 17	1.98	Clay:15% silt, 10% gravel, dark grey (10YR4/1), high plasticity, firm, moist	CH			Sample from 20 to 22 feet was obtained at 1615 hours.
	4 7 10 15	2.0	Clay: 15% silt, 5% gravel, dark grey (10YR4/1), medium plasticity, hard, moist	CL			Sample from 22 to 24 feet was obtained at 1640 hours.
25	7 9 13 18	2.0	Clay: 10% silt, 5% gravel, dark grey (10YR4/1), medium plasticity, hard, moist	CL		Sand Pack	Sample from 24 to 26 feet was obtained at 1655 hours. Silt was observed in the nose cone of the split spoon. The drilling operation was stopped for the day.
	9 12 14 17	2.0	Clay: 10% silt, <5% gravel, dark grey (10YR4/1), high plasticity, hard, moist	CH			Drilling resumed at 0845 hours on January 15, 1991. The weather was approximatedly 30°. Sample from 26 to 28 feet was obtained at 0850 hours.
	5 8 11 15	2.0	Clay: 15% silt, 5% gravel, grey (10YR5/1), medium plasticity, hard, moist	CL			Sample from 28 to 30 feet was obtained at 0905 hours.
30				CL			

Fort Sheridan RI/FS — Log of Well LF2SB7/MW7d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
30	4 8 16	2.0	**Clay:** 20% silt, 10% gravel, grey (10YR5/1), medium plasticity, hard for most of split spoon except it is soft from 31.5 to 32 feet, moist	CL		Sand Pack	Sample from 30 to 32 feet was obtained at 0930 hours.
32	8 14 22 34	2.0	**Clay:** 10% silt, 10% gravel, dark grey (10YR4/1), medium plasticity, hard, moist	CL			Saturated silt was encountered from 31.8 to 32 feet. Sample from 32 to 34 feet was obtained at 0949 hours.
35							
40							
45							

Log of Well LF2SB7/MW7s

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling		
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.		
Drilling Rig: CME 850 Track Mounted Rig	Drilling Method: 6 1/4" HSA	
Soil Sampling Device:		
Date Started: 1/21/91	Date Completed: 1/21/91	Total Depth Drilled: 8.53
Water Level While Drilling (bgl): 4.5		Ground Elevation: 586.565

Completion Information

Water Level At Completion (bgl): 4.96	Date: 1/21/91
Screened Interval: 3.19-8.18	Filter Pack Interval: 3.03-8.53
Screen Length: 4.99	Bentonite Seal Interval: 1.56-3.03
End Cap Length: 0.35	Grout Interval: 0-1.56
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 5.89	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 589.271	Protective Casing Length/AG: 5.01/3.0

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/21/91	1535	1600	0	8.53

Abbreviations

Abbr.	Meaning
HSA	hollow stem augers

Location Sketch

Fort Sheridan RI/FS

Log of Well LF2SB7/MW7s

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0		**Cobble:** medium to large, various types and colors, nonplastic, Beach Deposit	GW		3.0' .90' 2.10' Grout, Hole Plug	This boring log was compiled by examination of the soil cuttings with litholoy changes based on changes in drilling pressure. No soil samples were obtained from this boring, but a detailed log for this area has been compiled for the nearby boring - LF2SB07d
		Gravelly Sand: 30-50% gravel, brown (10YR5/3), non-plastic, moist, rounded, Beach Deposit	SP		Sand Pack	A cobble was encountered from 2.5 to 3.5 feet.
5						The sand was saturated at a depth of 4.5 feet.
		Clay:5% silt, grey (10YR5/1), high plasticity, firm, moist	CH			
10						
15						

Log of Well LF2SB8/MW8d

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted	Drilling Method: 6 3/4" HSA
Soil Sampling Device: 3" x 2' Split Spoon	
Date Started: 7/23/91 Date Completed: 7/23/91	Total Depth Drilled: 32
Water Level While Drilling (bgl): 5.15	Ground Elevation: 584.3553

Completion Information

Water Level At Completion (bgl): 10.37	Date: 7/23/91
Screened Interval: 19.47-29.46	Filter Pack Interval: 14.2-29.82
Screen Length: 9.99	Bentonite Seal Interval: 9.2-14.2
End Cap Length: 0.36	Grout Interval: 0-9.2
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 22.3	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 587.242	Protective Casing Length/AG: 5.02/3.4

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
7/23/91	0915	1435	0	32

Abbreviations

Abbr.	Meaning
HSA	hollow stem augers
FM	fill material
Some	>25-35%
little	>15-25%
few	>5-10%
trace	>5%
PID	photoionization detector
ppm	parts per million

Location Sketch

Fort Sheridan RI/FS — Log of Well LF2SB8/MW8d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0	4	2.0	**Sand:** some gravel, few fines, brown (10YR5/3), non-plastic, medium dense, rounded, dry, Beach Deposit	SP		3.4' / 2.88'	Sample from 0 to 2 feet was obtained at 0915 hours. Headspace reading of the sample using a PID was 0.0 ppm. Munsell color chart is referenced in the descriptions.
	8						
	8		**Gravelly Sand:** small to medium gravel, few fines (silt and clay), non-plastic, medium dense, rounded, moist, Beach Deposit	SW			
	15						
	3	2.0	**Gravelly Sand:** small to medium gravel, few fines (silt and clay), non-plastic, rounded, moist, Beach Deposit	SW			Sample from 2 to 4 feet was obtained at 0935 hours. Headspace reading of the sample using a PID was 0.0 ppm.
	12						
	33						
	23		**Cobble:** limestone, Fill Material	FM			
	3	2.0	**Sand:** few gravel, few fines (silt and clay), brown (10YR5/3), non-plastic, rounded, saturated at 5.5 feet, Beach Deposit	SP			Sample from 4 to 6 feet was obtained at 1015 hours. Headspace reading of the sample using a PID was 0.0 ppm.
5	13						
	18						
	18		**Gravelly Sand:** small to medium gravel, few fines, non-plastic, medium dense, saturated, Beach Deposit	SW			
	3	2.0	**Gravelly Sand:** small to medium gravel, few fines (silt and clay), non-plastic, medium dense, saturated, Beach Deposit	SW			Sample from 6 to 8 feet was obtained at 1025 hours. Headspace reading of the sample using a PID was 0.0 ppm.
	4						
	10		**Clay:** some silt, little small to medium gravel, trace sand, grey (10YR5/1), hard, slightly moist to dry	CL			
	15						
	3	1.0	**Clay:** some silt, little gravel, trace sand, grey (10YR5/1), hard, moist	CL			Sample from 8 to 10 feet was obtained at 1040 hours. Headspace reading of the sample using a PID was 0.0 ppm.
	9						
	15						
10	25						
	9	2.0	**Clay:** some silt, little medium gravel, trace sand, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 10 to 12 feet was obtained at 1050 hours. Headspace reading for the sample using a PID was 0.0 ppm.
	17						
	22						
	30						
	6	2.0	**Clay:** some silt, little medium to large gravel, trace sand, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 12 to 14 feet was obtained at 1100 hours. Headspace reading for the sample using a PID was 0.0 ppm.
	13						
	19						
	26						
	7	2.0	**Clay:** some silt, little gravel, trace sand, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 14 to 16 feet was obtained at 1110 hours. Headspace reading for the sample using a PID was 0.0 ppm.
15	12						

Cement Grout

Bentonite Hole Plug

d Pack

Log of Well LF2SB8/MW8s

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted	Drilling Method: 6 3/4" HSA
Soil Sampling Device:	
Date Started: 7/23/91 Date Completed: 7/23/91	Total Depth Drilled: 9
Water Level While Drilling (bgl): 5.5	Ground Elevation: 584.2851

Completion Information

Water Level At Completion (bgl): 7.38	Date: 7/24/91
Screened Interval: 3.66-8.64	Filter Pack Interval: 3.75-9
Screen Length: 4.98	Bentonite Seal Interval: 1.4-3.75
End Cap Length: 0.36	Grout Interval: 0-1.4
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 6.5	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 587.477	Protective Casing Length/AG: 5.01/3.55

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
7/23/91	1755	1805	0	9

Abbreviations

Abbr.	Meaning
HSA	hollow stem auger
some	25-35%
few	5-10%
FM	fill material

Location Sketch

Fort Sheridan RI/FS — Log of Well LF2SB8/MW8s

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0		Gravelly Sand: small to medium gravel, fine to coarse sand, brown (10YR5/3), non-plastic, dry to moist	SW		3.55' / 3.18' — Grout	This boring log was compiled by examination of the soil cuttings with lithology changes based on changes in drilling pressure. No soil samples were obtained from this boring, but a detailed log for this area has been compiled for the nearby deep boring - LF2SB08d
		Cobble: limestone, Fill Material	FM		Hole Plug	
5		Gravelly Sand: small to medium gravel, fine to coarse sand, brown (10YR5/3), non-plastic, saturated at 5.5 feet	SW		Sand Pack	
		Clay: some silt, few small gravel, grey (10YR5/1), hard, moist	CL			
10						
15						

Log of Well LF2SB9/MW9d

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling	
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.	
Drilling Rig: CME 850 Track Mounted	Drilling Method: 6 3/4" HSA
Soil Sampling Device: 3" x 2' Split Spoon	
Date Started: 7/24/91 Date Completed: 7/24/91	Total Depth Drilled: 32
Water Level While Drilling (bgl): 4.0	Ground Elevation: 582.4110

Completion Information

Water Level At Completion (bgl): 12.5	Date: 7/24/91
Screened Interval: 19.74-29.74	Filter Pack Interval: 13.4-30.1
Screen Length: 10.0	Bentonite Seal Interval: 8.0-13.4
End Cap Length: 0.36	Grout Interval: 0-8.0
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 22.34	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 584.975	Protective Casing Length/AG: 5.02/3.1

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
7/24/91	1043	1440	0	32

Abbreviations

Abbr.	Meaning
HSA	hollow stem augers
Some	>25-35%
little	>15-25%
few	>5-10%
trace	>5%
PID	photoionization detector
ppm	parts per million

Location Sketch

Fort Sheridan RI/FS — Log of Well LF2SB9/MW9d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0	1	2.0	**Sand:** some small gravel, few fines, brown (10YR5/3), non-plastic, medium dense, moist, one inch gravel seam located at a depth of one foot, rounded, beach sand	SP		3' Cement Grout; 2364' Bentonite Hole Plug; Sand Pack	Sample from 0 to 2 feet was obtained at 1045 hours. Headspace reading of the sample using a PID was 0.0 ppm. Munsell color chart is referenced in the descriptions.
	3						
	5						
	12	2.0	**Sand:** coarse grained, some small gravel, brown (10YR5/3), non-plastic, medium dense, rounded, moist	SP			Sample from 2 to 4 feet was obtained at 1050 hours. Headspace reading of the sample using a PID was 0.0 ppm. A cobble was encountered from 3.5 to 4 feet during drilling.
	7		**Sand:** fine to medium grained, few gravel, trace fines, brown (10YR5/3), non-plastic, medium dense, rounded, moist	SP			
	13						
	15	2.0	**Gravelly Sand:** fine to coarse grained sand, small to medium gravel, trace fines, brown (10YR5/3), non-plastic, rounded, moist at 3.5 feet	SW			
	12						
5	11	1.6	**Sand:** some small to medium gravel, few fines, brown (10YR5/3), non-plastic, rounded, saturated	SP			Sample from 4 to 6 feet was obtained at 1100 hours. Headspace reading of the sample using a PID was 0.0 ppm.
	10						
	10						
	12	1.6	**Gravelly Sand:** fine to coarse sand and gravel, wood fill, trace fines, brown (10YR5/3), non-plastic, rounded, saturated	SW			Sample from 6 to 8 feet was obtained at 1110 hours. Headspace reading of the sample using a PID was 0.0 ppm.
	3		**Gravelly Sand:** fine to coarse sand and gravel, wood fill, trace fines, brown (10YR5/3), non-plastic, rounded, saturated	SW			
	3						
	5	1.6	**Clay:** some silt, few small gravel, grey (10YR5/1), low plasticity, hard, moist	CL			
	10						
	3		**Clay:** some silt, few small gravel, grey (10YR5/1), low plasticity, hard to firm, moist	CL			Sample from 8 to 10 feet was obtained at 1120 hours. Headspace reading of the sample using a PID was 0.0 ppm.
	6	1.5					
	9						
10	12						
	2		**Clay:** some silt, few small gravel, trace sand, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 10 to 12 feet was obtained at 1135 hours. Headspace reading for the sample using a PID was 0.0 ppm.
	5	2.0					
	9						
	14						
	4		**Clay:** some silt, few small to medium gravel, trace sand, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 12 to 14 feet was obtained at 1145 hours. Headspace reading for the sample using a PID was 0.0 ppm. Gravel was encountered at 12.5 feet.
	8	2.0					
	10						
	15						
	6	2.0	**Clay:** some silt, little small to medium gravel, trace sand, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 14 to 16 feet was obtained at 1155 hours. Headspace reading for the sample using a PID was 0.0 ppm.
15	5						

Fort Sheridan RI/FS — Log of Well LF2SB9/MW9d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
15	8 11	2.0		CL			
	4 10 12 14	2.0	Clay: some silt, few small to medium gravel, trace sand, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 16 to 18 feet was obtained at 1205 hours. Headspace reading for the sample using a PID was 0.0 ppm.
	4 7 10 14	2.0	Clay: some silt, few medium gravel, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 18 to 20 feet was obtained at 1215 hours. Headspace reading for the sample using a PID was 0.0 ppm.
20	5 9 14 19	2.0	Clay: some silt, few small to medium gravel, grey (10YR5/1), low plasticity, hard, moist	CL			Sample from 20 to 22 feet was obtained at 1335 hours. Headspace reading for the sample using a PID was 0.0 ppm.
	3 9 12 17	2.0	Clay: some silt, few small to medium gravel, grey (10YR5/1), low plasticity, firm to hard, moist	CL			Sample from 22 to 24 feet was obtained at 1345 hours. Headspace reading for the sample using a PID was 0.0 ppm.
25	4 6 9 10	2.0	Clay: some silt, few gravel, grey (10YR5/1), low plasticity, firm to hard, moist, gravelly from 24.4 to 24.8	CL			Sample from 24 to 26 feet was obtained at 1400 hours. Headspace reading for the sample using a PID was 0.0 ppm.
	4 7 10 3	2.0	Clay: some silt, few medium gravel, grey (10YR5/1), low plasticity, firm to hard, moist	CL			Sample from 26 to 28 feet was obtained at 1415 hours. Headspace reading for the sample using a PID was 0.0 ppm.
30	5 9 11 13	2.0	Clay: some silt and small to medium gravel, grey (10YR5/1), low plasticity, firm to hard, moist	CL			Sample from 28 to 30 feet was obtained at 1420 hours. Headspace reading for the sample using a PID was 0.0 ppm.
				CL		Sand Pack	

Fort Sheridan RI/FS

Log of Well LF2SB9/MW9d

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
30	5 12 16 21	2.0	Clay: some silt and small to medium gravel, grey (10YR5/1), low plasticity, firm, moist	CL		Sand Pack	Sample from 30 to 32 feet was obtained at 1435 hours. Headspace reading for the sample using a PID was 0.0 ppm.
35							
40							
45							

Log of Well LF2SB9/MW9s

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Darryl Krause, Stearns Drilling		
Geologist/Logger & Company: Michael Pozniak, ESE, Inc.		
Drilling Rig: CME 850 Track Mounted	Drilling Method: 6 3/4" HSA	
Soil Sampling Device:		
Date Started: 7/24/91	Date Completed: 7/24/91	Total Depth Drilled: 9.2
Water Level While Drilling (bgl): 4.0		Ground Elevation: 582.7102

Completion Information

Water Level At Completion (bgl): 3.0	Date: 7/25/91
Screened Interval: 3.88-8.84	Filter Pack Interval: 2.8-9.2
Screen Length: 4.96	Bentonite Seal Interval: 1.0-2.8
End Cap Length: 0.36	Grout Interval: 0-1.0
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: -0.5-0
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.525
Total Casing: 6.45	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 585.2959	Protective Casing Length/AG: 5.03/2.96

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
7/24/91	1700	1717	0	9.2

Abbreviations

Abbr.	Meaning
HSA	hollow stem auger
some	25-35%
few	5-10%
FM	fill material

Location Sketch

Fort Sheridan RI/FS — Log of Well LF2SB9/MW9s

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0		Sand: some small to medium gravel, few fines (silt and clay), brown (10YR5/3), non-plastic, dry to moist	SP		2.96' / 2.586' — Grout; Hole Plug	This boring log was compiled by examination of the soil cuttings with lithology changes based on changes in drilling pressure. No soil samples were obtained from this boring, but a detailed log for this area has been compiled for the nearby deep boring - LF2SB09d
		Cobble: limestone, Fill Material	FM			
5		Sand: some small to medium gravel, few fines (silt and clay), brown (10YR5/3), non-plastic, saturated	SP		Sand Pack	
		Clay: some silt, few small gravel, grey (10YR5/1), low plasticity, moist	CL			
10						
15						

LF2/SARN

Log of Well LF2SB1/MW1

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Lester Johnson, ESE, Inc.	
Geologist/Logger & Company: James W. Ashley, ESE, Inc.	
Drilling Rig: Brat I	Drilling Method: 6 1/4" HSA
Soil Sampling Device: Laskey Sampler	
Date Started: 01/24/91 Date Completed: 01/25/91	Total Depth Drilled: 40
Water Level While Drilling (bgl): 33	Ground Elevation: 649.755

Completion Information

Water Level At Completion (bgl): 39.64	Date: 01/27/91
Screened Interval: 30 to 40	Filter Pack Interval: 25-40
Screen Length: 9.99	Bentonite Seal Interval: 19.6-25
End Cap Length: 0.15	Grout Interval: 0.0-19.6
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval: 0.0 to -0.5
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height: -0.6
Total Casing: 32.67	Protective Casing Type: stick-up 6"
Top of Casing Elevation: 652.194	Protective Casing Length/AG: 5/2.5

Drilling Shifts

Date	Time Start	Time End	Depth of Drilling Per Shift Start	Depth of Drilling Per Shift End
01/24/91	1520	1820	0	34.0
01/25/91	0924	1545	34	40

Abbreviations

Abbr.	Meaning
HSA	Hollow Stem Augers
PID	Photoionization Detector
NAB	Not Above Background

Location Sketch

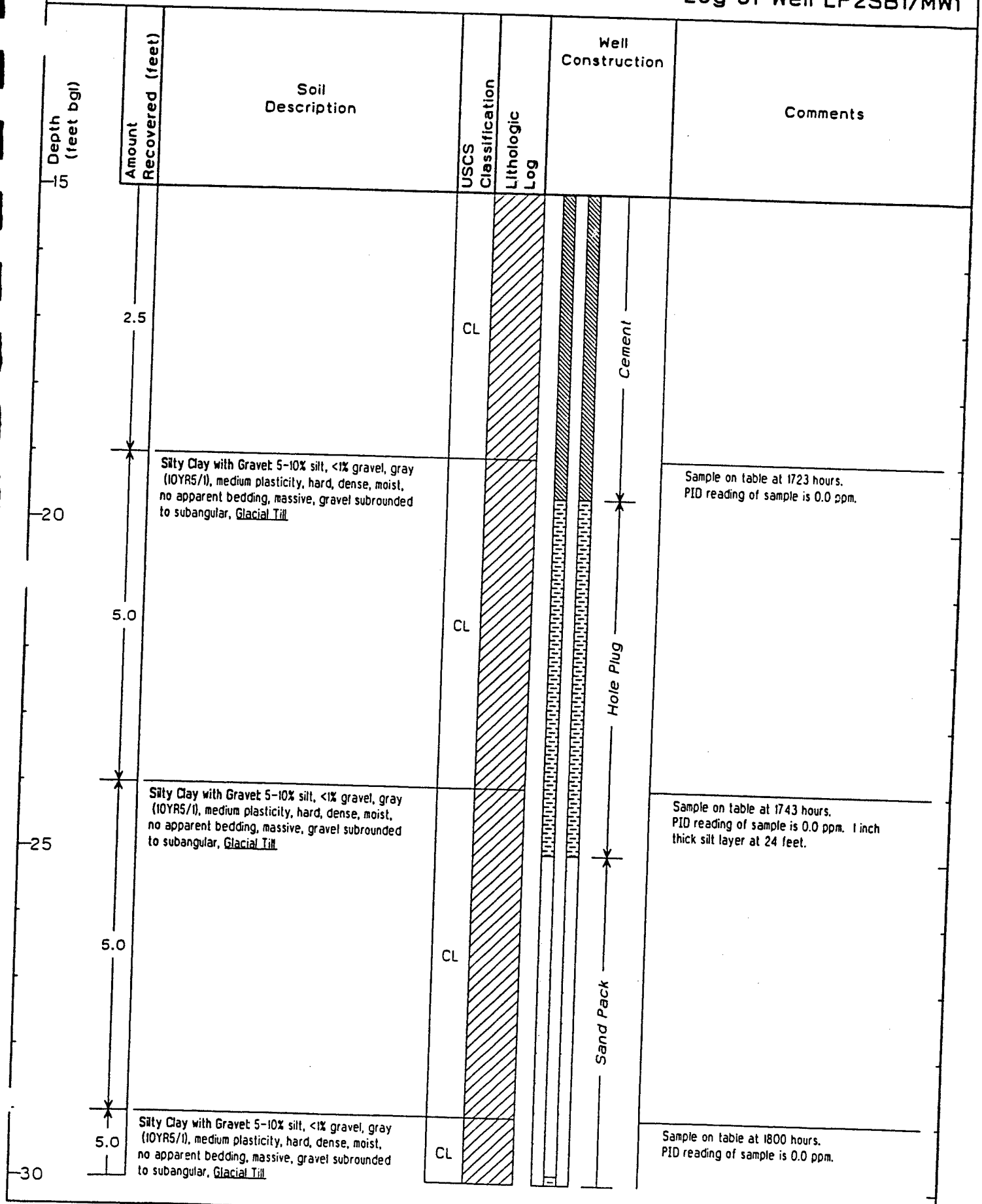
Fort Sheridan RI/FS

Log of Well LF2SB1/MW1

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0	2.4	**Silty Clay with Gravel** 5-10% silt, 10% gravel, yellowish brown (10YR5/4), nonplastic (frozen), hard, dense, dry to moist (at depth), no apparent bedding, massive, gravel subrounded to rounded, Glacial Till	CL		2.5' 2.439' Cement	Sample on table at 1615 hours. PID reading on breathing zone is 0.0 Weather conditions: Clear with west winds at 5 mph, windchill temp- erature is -10 degrees F. Upper foot of sample is frozen.
5	5.0	**Silty Clay with Gravel** 5-10% silt, 1% gravel, yellowish brown (10YR5/6), medium plasticity, hard, dense, moist, no apparent bedding, massive, gravel subrounded to subangular, Glacial Till	CL			Sample on table at 1631 hours. PID reading of sample is 0.0 ppm.
10	5.0	**Silty Clay with Gravel** 5-10% silt, <1% gravel, gray (10YR5/1), medium to high plasticity, hard, dense, moist, no apparent bedding, massive, gravel subrounded to subangular, Glacial Till	CL			Sample on table at 1647 hours. PID reading of sample is 0.0 ppm.
15	2.5	**Silty Clay with Gravel** 5-10% silt, <1% gravel, gray (10YR5/1), medium plasticity, hard, dense, moist, no apparent bedding, massive, gravel subrounded to subangular, Glacial Till	CL			Sample on table at 1702 hours. PID reading of sample is 0.0 ppm. Low recovery is due to large piece of fossiliferous limestone lodged in sampler nose.

Fort Sheridan RI/FS

Log of Well LF2SB1/MW1



Fort Sheridan RI/FS

Log of Well LF2SB1/MW1

Depth (feet bgl)	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
30	5.0		CL			
		Silty Clay with Gravel 5-10% silt, <1% gravel, gray (10YR5/1), medium plasticity, hard, dense, moist, no apparent bedding, massive, gravel subrounded to subangular, Glacial Till	CL		Sand Pack	Sample on table at 1019 hours (01/25/91). PID reading of breathing zone is 0.0 ppm. PID reading of sample is 0.0 ppm.
35						
		Silty Clay with Gravel 5-10% silt, <1% gravel, gray (10YR5/1), medium plasticity, hard, dense, moist, no apparent bedding, massive, gravel surounded to subangular, Glacial Till	CL			Sample on table at 1042 hours. PID reading of sample is 0.0 ppm.
40						
45						

Log of Well LF02SB02/LF2MW02

Fort Sheridan RI/FS

Contract Number DAAA15-90-D-0017

Driller & Company: Chuck Vermillion, Mike Hebert, ESE, Inc.	
Geologist/Logger & Company: Andrew Granskog, ESE, Inc.	
Drilling Rig: CME 55 Truck Mounted Rig	Drilling Method: 6 1/4" HSA
Soil Sampling Device: 3" x 2' Split Spoon	
Date Started: 1/13/91 Date Completed: 1/14/91	Total Depth Drilled: 24.97
Water Level While Drilling (bgl): 12.69	Ground Elevation: 646.762

Completion Information

Water Level At Completion (bgl): 7.86	Date: 1/16/91
Screened Interval: 14.79-24.82	Filter Pack Interval: 7-24.92
Screen Length: 10.03	Bentonite Seal Interval: 3-7
End Cap Length: 0.15	Grout Interval: 0-3
Screen Type/Dia.: 10 slot PVC/4"	Mortar Collar Interval:
Casing Type/Dia.: sched 40 PVC/4"	Drainage Port Height:
Total Casing: 17.11	Protective Casing Type: Stick-up 6"
Top of Casing Elevation: 650.182	Protective Casing Length/AG: 5/3.6

Drilling Shifts

Date	Time		Depth of Drilling Per Shift	
	Start	End	Start	End
1/13/91	0930	1730	0	22
1/14/91	0845	1700	22	24

Abbreviations

Abbr.	Meaning
HSA	hollow stem auger

trace = < 5%
few = 5-10%
little = 15-25%
some = 30-45%
mostly = 50-100%

Location Sketch

Fort Sheridan RI/FS

Log of Well LF02SB02/LF2MW02

Depth (feet bgl)	Blow Counts	Amount Recovered (feet)	Soil Description	USCS Classification	Lithologic Log	Well Construction	Comments
0	26 36 49	2.0	**Clay:** 0 to 0.8, Clay with gravel and sand (10YR4/4), dry fragments, glass and bricks, frozen, pieces of wood. 0.8 to 1.6, Building material, brick, stone (10YR7/1). 1.6 to 2.0, Clay with some fine to medium gravel, very dark grey (10YR3/1), medium plasticity, hard, slightly moist, no apparent bedding, subangular to angular grains Glacial Till	CL		3.6' 3.42' Cement Grout	Frost to 0.8 ft., hard drilling, building fragments and pieces of wood. Munsell color chart is referenced in the descriptions. Collected SS1.
	30 7 10	2.0	**Clay:** some fine to medium gravel and sand, trace silt, dark brown matrix with very dark brown (10YR2/2) at 2 to 2.4', 2.4-4.0 ft. matrix is dark brown (10YR4/3) with mottles of olive yellow (2.5Y6/8) and olive brown (2.5Y4/4). Plasticity medium hard, no apparent bedding, angular grains, Glacial Till	CL			Collected SS2.
	16 20 10	2.0	**Clay:** little fine-medium gravel, trace silt and sand. Dark yellowish brown (10 YR 4/4) with mottles of light brownish grey (10YR6/2), medium plasticity, hard, moist, no apparent bedding, Glacial Till	CL		Bentonite Slurry	Collected SS3.
5	16 20 27	2.0					
	9 19 30	2.0	**Clay:** trace fine to medium gravel, trace silt and sand, brown (10YR4/3), medium plasticity, hard, moist, no apparent bedding, Glacial Till	CL			Collected SS4.
	43 10 24	2.0	**Clay:** trace fine to medium gravel, trace silt, dark greyish brown (10YR4/2) with mottles gray (10YR6/1) and yellowish red (5YR5/8) medium plasticity, hard, moist, no apparent bedding, Glacial Till	CL			Collected SS5. Hard drilling, no water encountered.
	35 46 9	2.0	**Clay:** trace fine to medium gravel, trace silt, dark grey (10YR4/1), mottles yellowish red (5YR5/8), medium plasticity, moist, no apparent bedding, angular grains, Glacial Till	CL		Sand Pack	Collected SS6. Very difficult drilling, few cobbles.
10	15 18 22	2.0					
	5 10 14	2.0	**Clay:** trace fine to medium gravel with some large gravel, trace silt, dark grey (10YR 4/1), medium plasticity, no apparent bedding, angular grains Glacial Till	CL			Collected SS7.
	19 5 7	2.0	**Clay:** trace fine to medium gravel with some large gravel, trace silt, dark grey (10YR4/1), medium plasticity, moist, no apparent bedding, angular grain Glacial Till	CL			Collected SS8.
15							

Fort Sheridan

Log of Well LF2SB10/LF2MW10

Depth (feet bgl)	Blow Counts	Sample Recovery (%)	PID or FID (ppm) Values	PID or FID (ppm) Profile	Soil/Rock Description and Comments	USCS Classification	Lithologic Log	Well Construction	Elevation (ft.)
0	SI		ND		**Clay** some silt, trace gravel, brown, 10YR4/3, very stiff, low to medium plasticity, damp	CL		concrete	639.2
2		90							637.2
4	SI								635.2
6		50	ND		**Silty Clay** some sand, trace fine gravel, brown-red, 10YR4/6, very stiff, low plasticity, damp	CL		20:1 cement:bentonite grout	633.2
8									631.2
10	SI	NA	1.8		**Sand** brown-grey, 10YR4/3, poorly graded, medium grained, loose, damp	SP		4" ID PVC casing	629.2
12									627.2
14		90	2.2						625.2
16									623.2

Fort Sheridan

Log of Well LF2SB10/LF2MW10

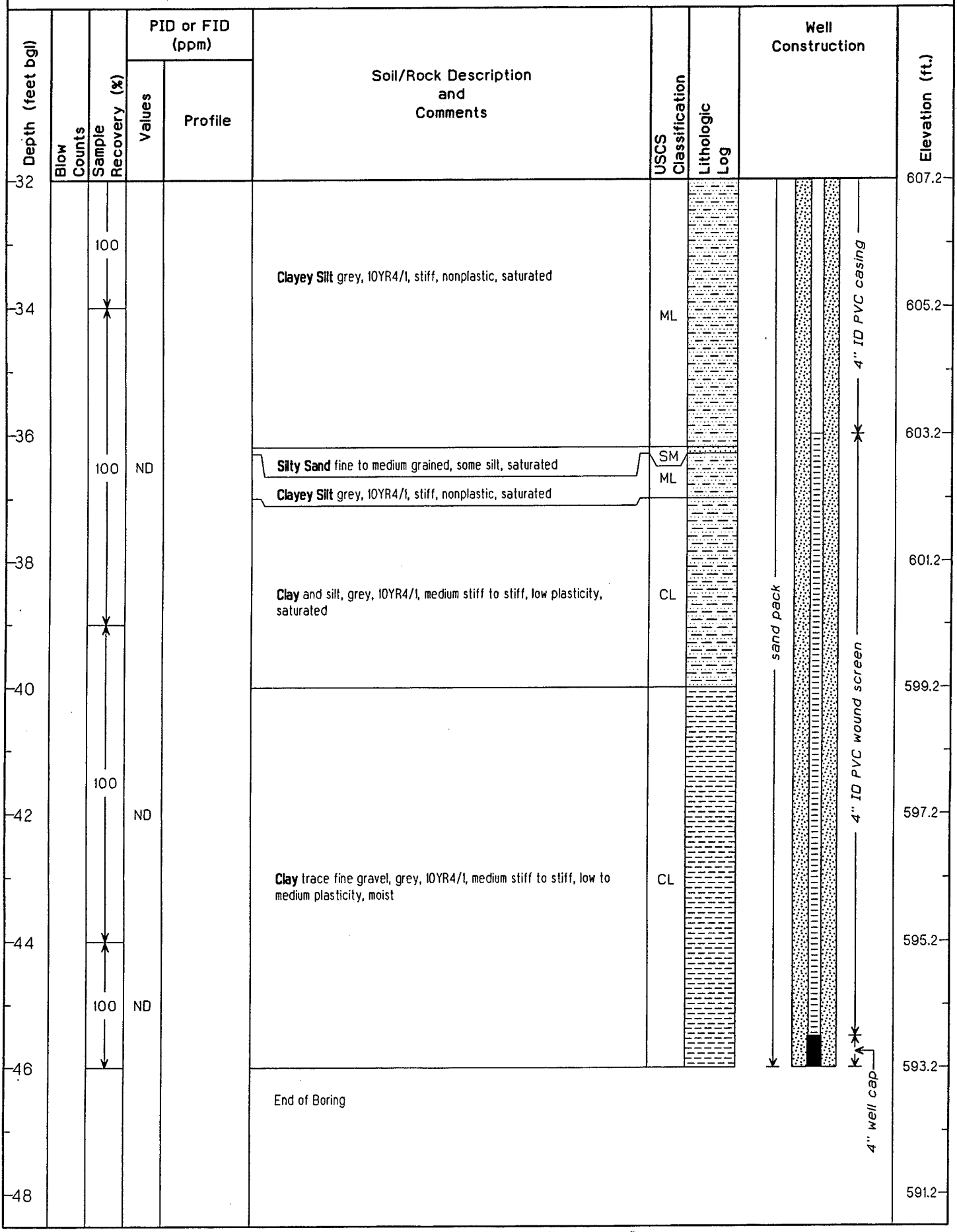
Depth (feet bgl)	Blow Counts	Sample Recovery (%)	PID or FID (ppm) Values	PID or FID (ppm) Profile	Soil/Rock Description and Comments	USCS Classification	Lithologic Log	Well Construction	Elevation (ft.)
16		90	2.2		**Sand** brown-grey, 10YR4/3, poorly graded, fine to medium grained, loose, damp	SP			623.2
18									621.2
20		90							619.2
22		80	2.3		**Silty Sand** some silt, grey, 10YR4/1, saturated	SM			617.2
24									615.2
26		90	ND		**Silt** grey, 10YR4/1, saturated	ML			613.2
28					**Clay** some silt, grey, 10YR4/1, stiff to very stiff, low plasticity, moist	CL			611.2
30		100	ND		**Clayey Silt** some clay, grey, 10YR4/1, stiff, nonplastic, saturated	ML			609.2
32									607.2

Well Construction: *20:1 cement:bentonite grout*; *hydrated bentonite*; *4" ID PVC casing*; *sand pack*

Environmental Science & Engineering, Inc.

Fort Sheridan

Log of Well LF2SB10/LF2MW10



Log of Well LF2SB14/LF2MW11

Fort Sheridan
Fort Sheridan, IL
Project Number: 490-2087

Client: *USAEC*	
Drilling Company: *Environmental Science and Engineering, Inc*	
Drilling Rig: *BRAT*	**Drilling Method:** *4.25" I.D. HSA*
Soil Sampling Device: *4" O.D. Laskey Sampler with liners*	**Borehole Diameter (in.):** *11*
Date Started: *11/14/95* **Date Completed:** *11/15/95*	**Total Depth Drilled (ft.):** *70.0*
Apparent Depth to Saturation While Drilling (ft. bgl): *30.0*	**Ground Elevation (ft.):** *649.13*

Completion Information

Screened Interval (ft. bgl): *35.0-44.5*	**Filter Pack Interval (ft. bgl):** *30-45*
Screen Length (ft.): *9.5*	**Filter Pack Type:** *sand*
Bottom Cap Length (ft.): *.5*	**Upper Seal Interval (ft. bgl):** *25-30*
Screen Type: *PVC wound*	**Upper Seal Type:** *hydrated bentonite*
Screen Slot Size/Dia. (in.): *0.01/4*	**Lower Seal Interval (ft. bgl):** *NA*
Total Casing (ft.): *35*	**Lower Seal Type:** *NA*
Casing Type/Dia. (in.): *PVC/4*	**Grout Interval (ft. bgl):** *1-25*
Top of Casing Elevation (ft.): *651.34*	**Grout Type:** *20:1 Cement:Bentonite*
Survey Datum: *NGVD*	**Protective Casing Type:** *stickup*

Explanation & Comments

LF2SB14 was overdrilled with 6.25" I.D. augers to install LF2MW11 within same borehole.

SI = Sample Interval
ND = Not Detected
NA = Not Available

Fort Sheridan

Log of Well LF2SB14/LF2MW11

Depth (feet bgl)	Blow Counts	Sample Recovery (%)	PID or FID (ppm) Values	PID or FID (ppm) Profile	Soil/Rock Description and Comments	USCS Classification	Lithologic Log	Well Construction	Elevation (ft.)
0					**Clay Loam** brown, topsoil			2.2'	649.1
2	SI	100	ND					concrete	647.1
4									645.1
6	SI	100	ND		**Clay** little silt, trace fine gravel, brown, 10YR5/3, stiff to very stiff, low plasticity, damp	CL		20:1 cement:bentonite grout	643.1
8									641.1
10		100	ND					4" ID PVC casing	639.1
12									637.1
14		100	ND		**Clay** mostly clay, little silt, trace fine gravel, grey, 10YR4/1, stiff to very stiff, low plasticity, damp	CL			635.1
16		75							633.1

Fort Sheridan

Log of Well LF2SB14/LF2MW11

Depth (feet bgl)	Blow Counts	Sample Recovery (%)	PID or FID (ppm) Values	PID or FID (ppm) Profile	Soil/Rock Description and Comments	USCS Classification	Lithologic Log	Well Construction	Elevation (ft.)
16						CL			633.1
18		75	ND						631.1
20					**Sandy Silt** some very fine grained sand, loose, grey, 10YR4/1, damp	SM		20:1 cement:bentonite grout	629.1
22		60	ND						627.1
24									625.1
26								hydrated bentonite	623.1
28		75	ND		**Silt** grey, 10YR4/1, damp	ML			621.1
30	SI				**Clay** little silt, trace gravel, grey, 10YR4/1, damp to moist	CL		sand pack	619.1
32		95						4" ID PVC casing	617.1

Fort Sheridan

Log of Well LF2SB14/LF2MW11

Depth (feet bgl)	Blow Counts	Sample Recovery (%)	PID or FID (ppm) Values	PID or FID (ppm) Profile	Soil/Rock Description and Comments	USCS Classification	Lithologic Log	Well Construction	Elevation (ft.)
32			ND		**Clay** little silt, trace gravel, grey, 10YR4/1, damp to moist	CL			617.1
		95			**Silt** little clay, grey, 10YR4/1, moist	ML			
34									615.1
36					**Silty Sand** very fine grained sand, some silt, grey, 10YR4/1, saturated	SM			613.1
		60	ND						
38									611.1
40					**Clay** some silt, grey, 10YR4/1, stiff, low plasticity, moist	CL			609.1
42					**Sandy Silt** some sand, grey, 10YR4/1, saturated	SM			607.1
		70	ND						
44									605.1
					Clay little silt, grey, 10YR4/1, stiff, low plasticity, moist	CL			
46		75			**Silt** little sand, grey, 10YR4/1, moist	ML			603.1
			ND						
48									601.1

Well Construction: *4" ID PVC casing*; *4" ID PVC wound screen*; *sand pack*; *natural collapse*; *4" well cap*

Fort Sheridan

Log of Well LF2SB14/LF2MW11

Depth (feet bgl)	Blow Counts	Sample Recovery (%)	PID or FID (ppm) Values	PID or FID (ppm) Profile	Soil/Rock Description and Comments	USCS Classification	Lithologic Log	Well Construction	Elevation (ft.)
48									601.1
		75			**Silt** little sand, grey, 10YR4/1, moist	ML			
50									599.1
52		50	ND						597.1
54									595.1
56					**Silty Sand** very fine grained sand, little silt, grey, 10YR4/1, saturated	SM-SP		natural collapse	593.1
		50	ND						
58									591.1
60									589.1
62		60	ND						587.1
64									585.1

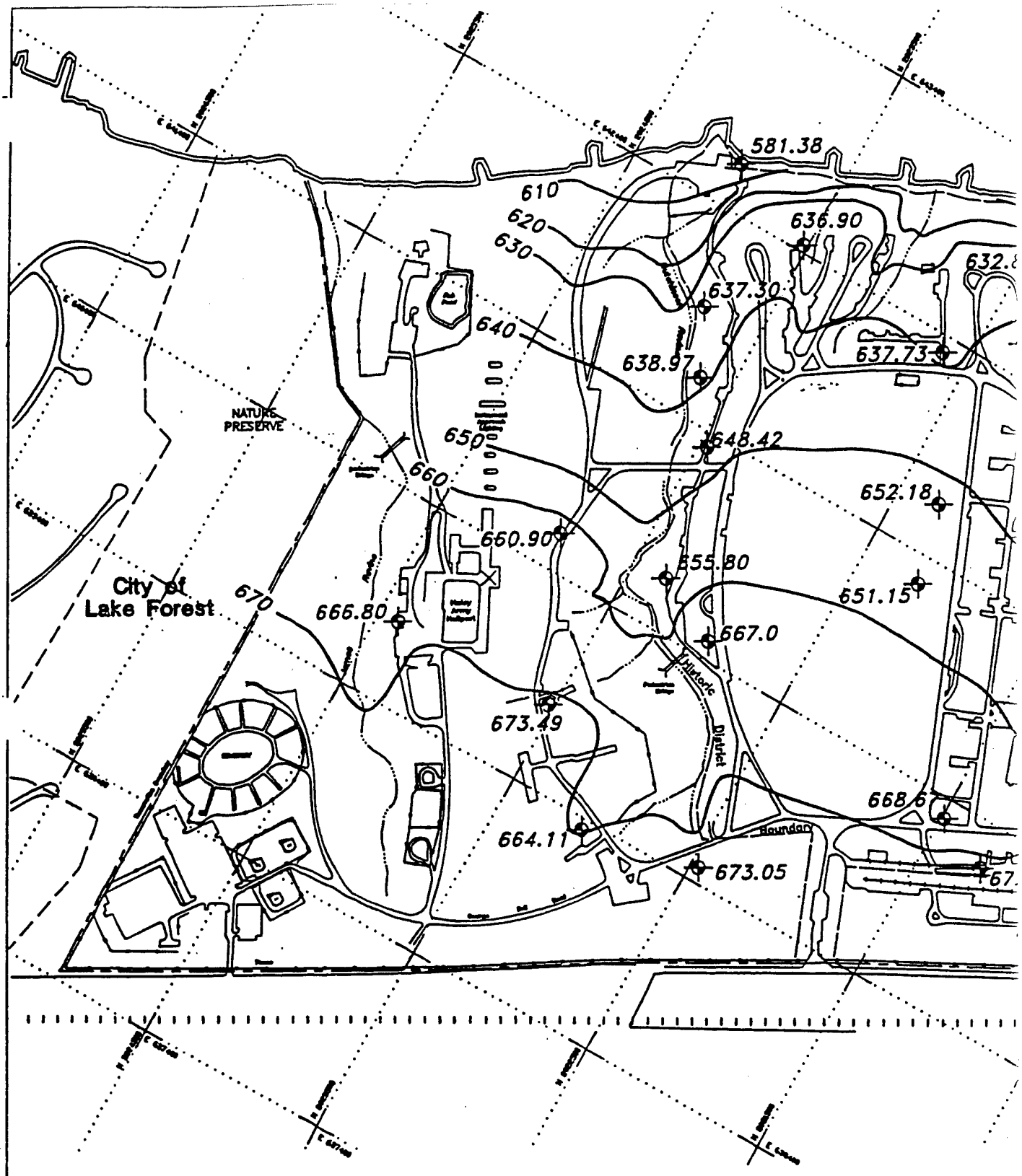
Fort Sheridan

Log of Well LF2SB14/LF2MW11

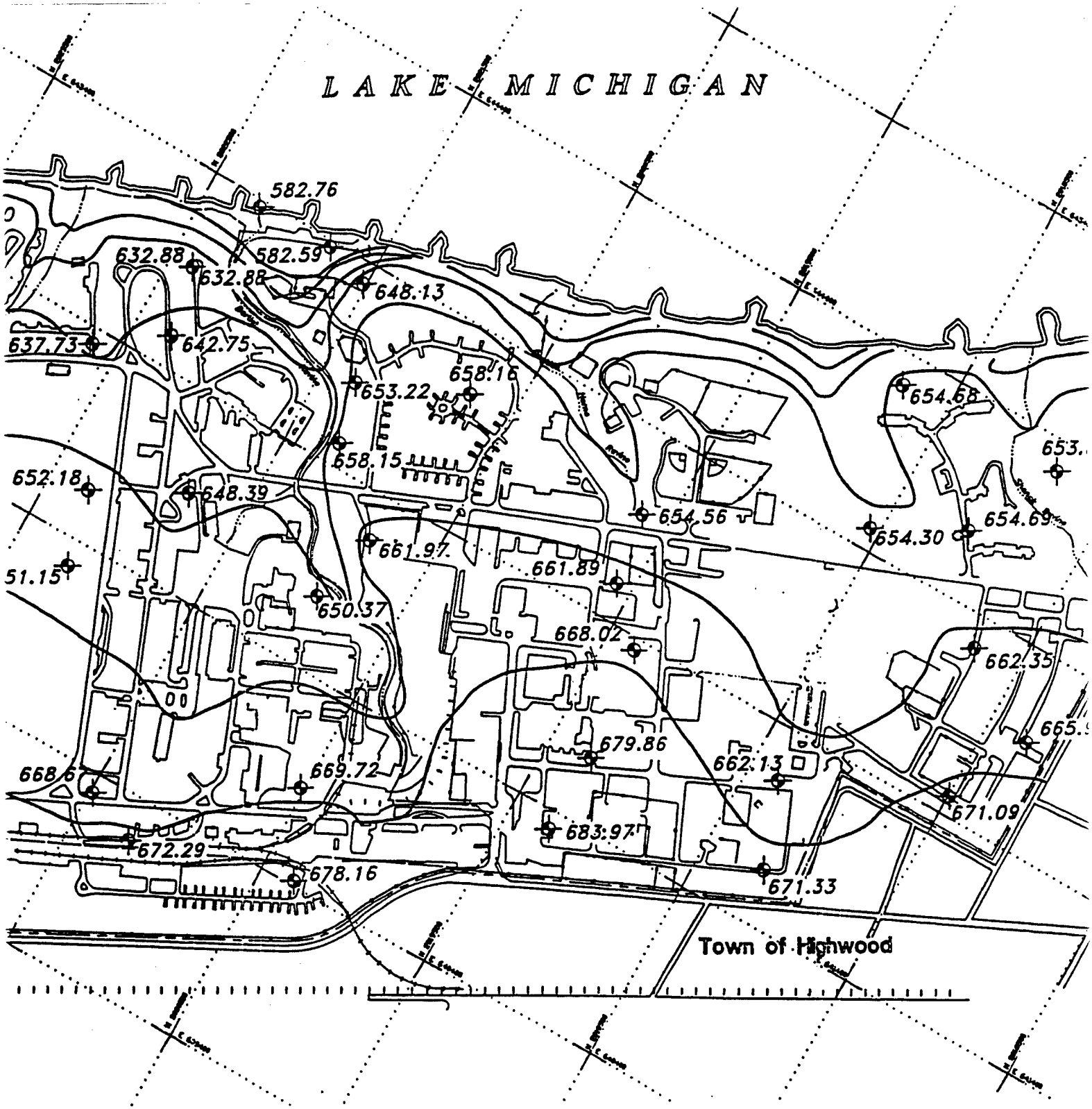
Depth (feet bgl)	Blow Counts	Sample Recovery (%)	PID or FID (ppm) Values	PID or FID (ppm) Profile	Soil/Rock Description and Comments	USCS Classification	Lithologic Log	Well Construction	Elevation (ft.)
64		60							585.1
66					**Silty Sand** very fine grained sand, little silt, grey, 10YR4/1, saturated	SM-SP		natural collapse	583.1
68		40	ND						581.1
70					**Clay** little silt, trace fine gravel, grey, 10YR4/1, stiff to very stiff, low plasticity, damp to moist	CL			579.1
					End of Boring				
72									577.1
74									575.1
76									573.1
78									571.1
80									569.1

Appendix C

Interpretive Groundwater Elevation Contours and Piezometer Location Map



Adapted from Official Post Map, Directorate of Engineering and Housing, Fort Sheridan, Illinois, January 6, 1989



ɜter Location

ɳ in feet

ɜ8/84)

NOTE: All Locations & contours
are approximate. Adapted from
E.C. Jordan drawing 6075-04 Fig.1-3

Interpretive Groundwa
Conto

Fort She

DVL
Revi

(2)

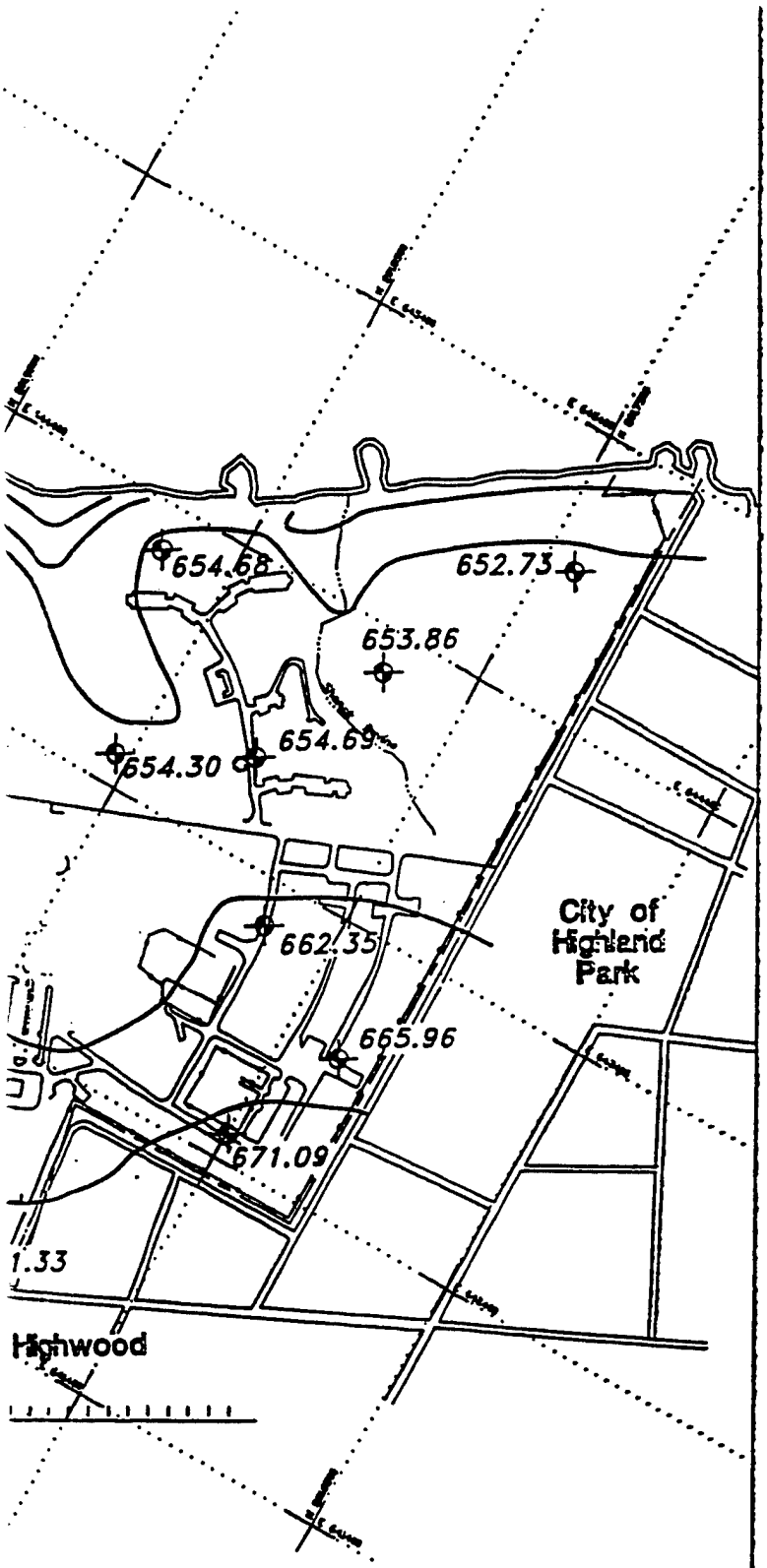


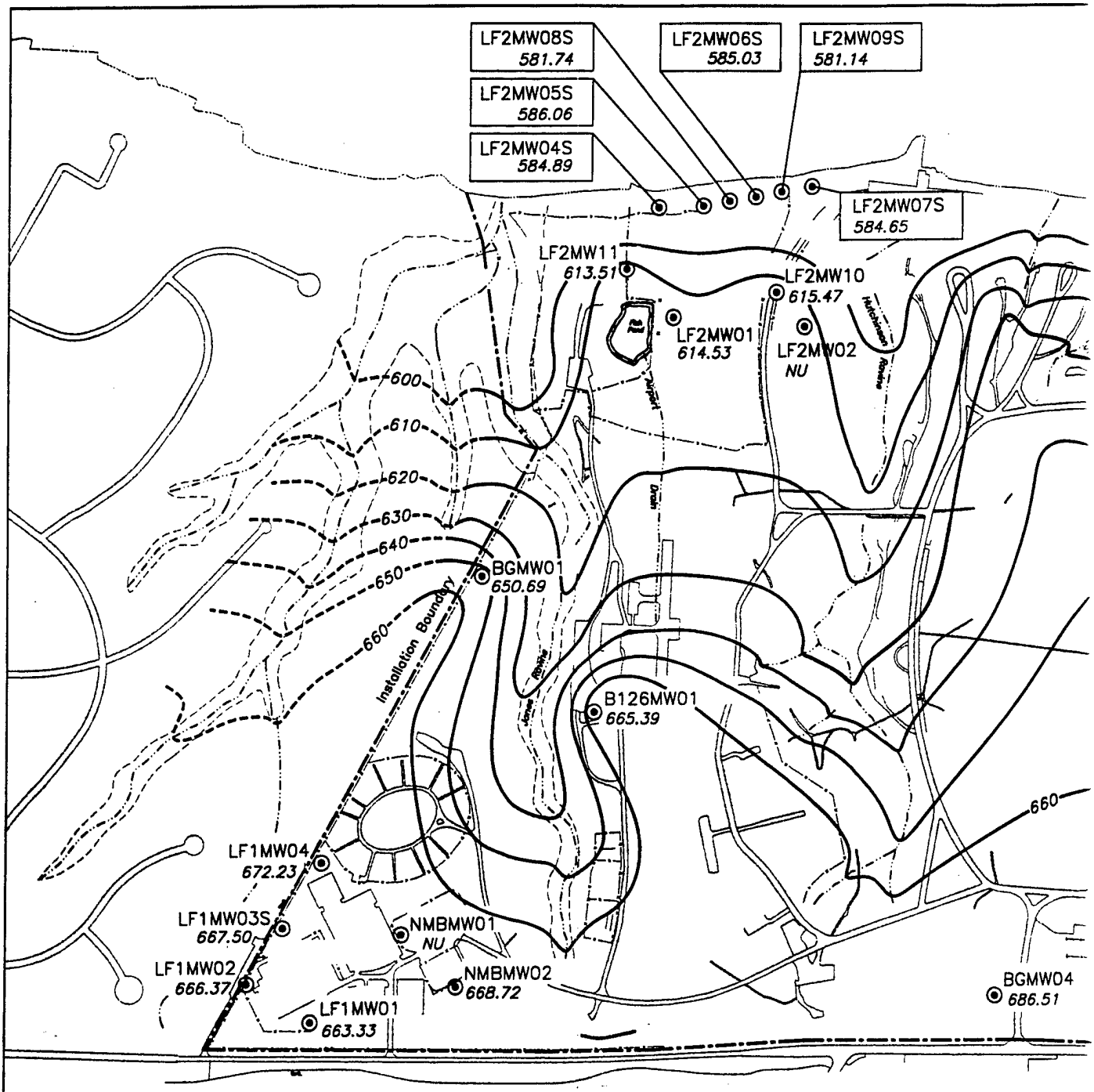
Figure 1

terpretive Groundwater Elevation Contours 11/28/84

Fort Sheridan, Illinois

ESE Environmental Science & Engineering, Inc.

DVL 12/05/91 490-2087
Revised DVL 12/18/91 FSGWPZL



645.19 Groundwater Elevation in Feet Relative to N.G.V.D.

⊙ Monitoring Well Location

NA Data Not Available

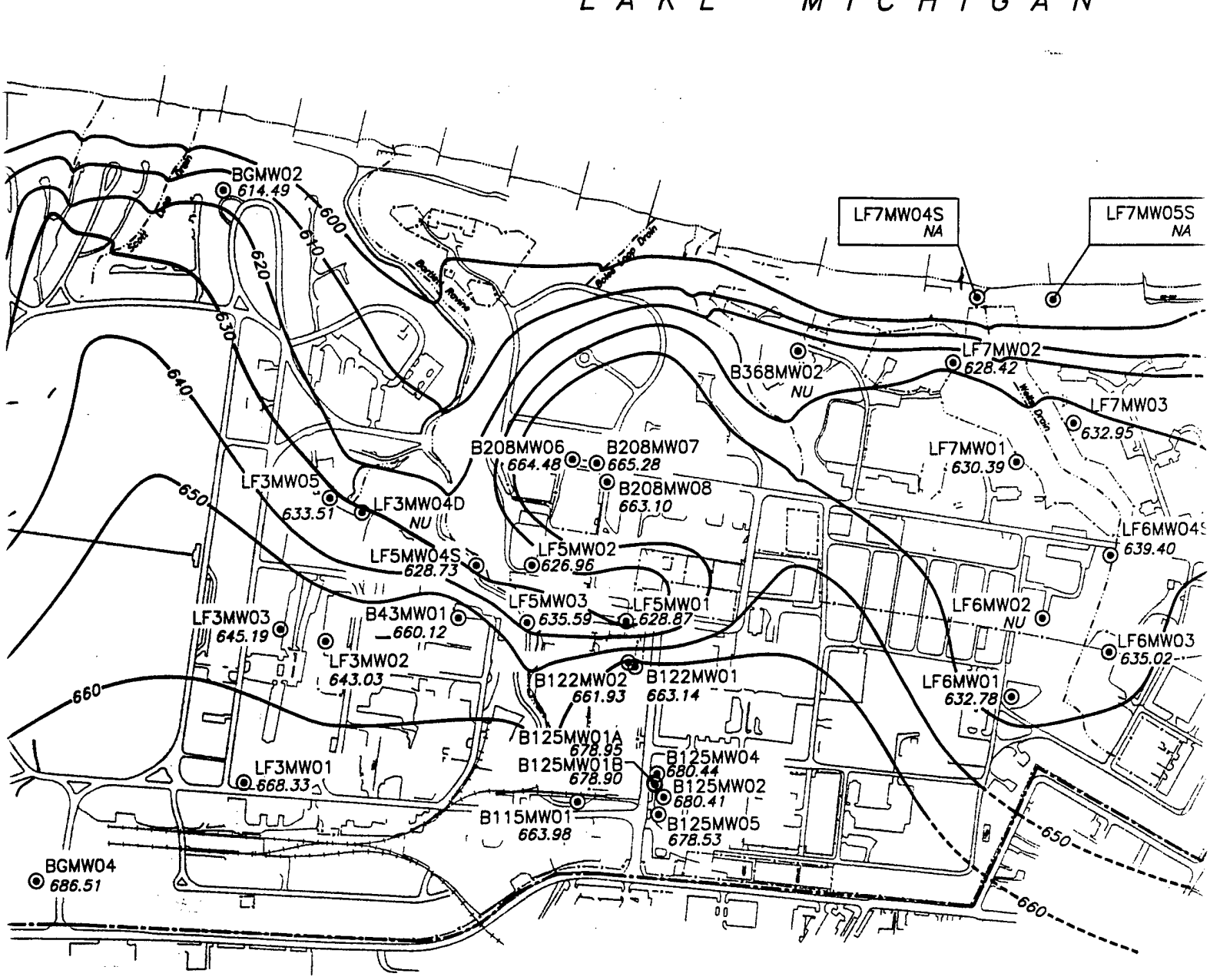
NU Data Not Utilized in Surface Generation

Contour Interval: 10 feet

JCF 03/17/98 490-2087

Revised JCF 03/18/98 FSGW1295

Installation information adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of Ravines, shoreline and roads north of Installation adapted from USGS 7.5' topographic quadrangle, Highlan



Generation

Virginia. Date of photography, 12/6/95.
uadrangle, Highland Park, Ill., 1963; photo revised 1972 & 1980.

0 700 1400
feet

Figure 2
Interpretive Groundwa Elevation Contours
Phase II Round 1 Static Elevations (11/95 throug

Fort Sheridan, Illinois

(2)

I C H I G A N

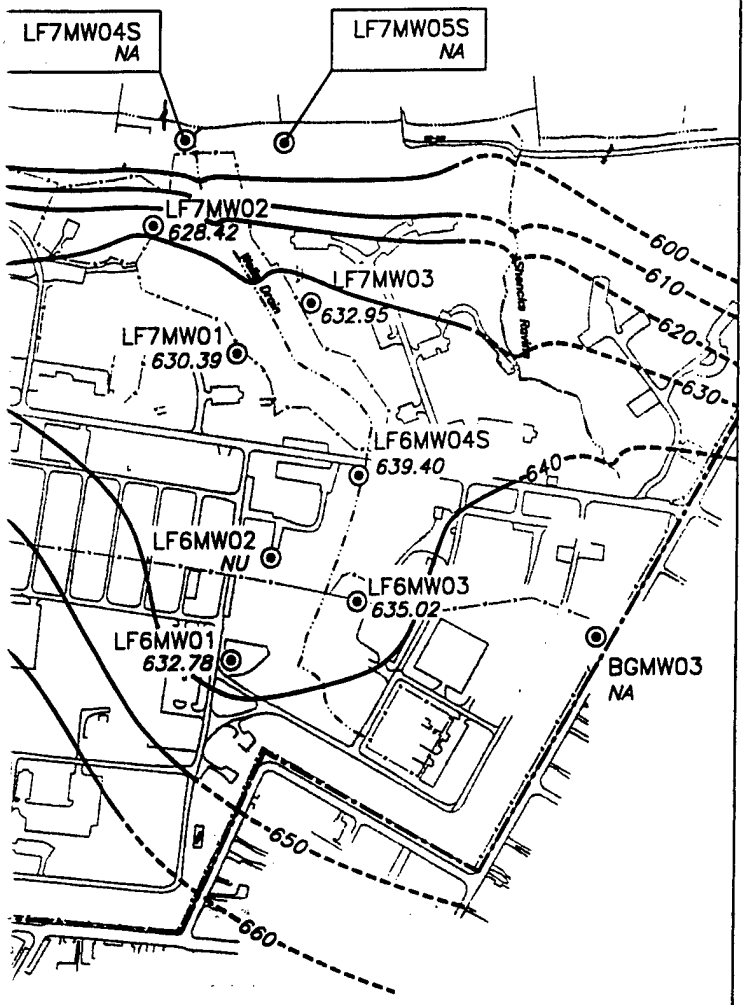


Figure 2

Interpretive Groundwater Elevation Contours

Phase II Round 1 Static Water Level Elevations (11/95 through 1/96)

Fort Sheridan, Illinois

Appendix D

Phase II Monitoring Well Depth-to-Water Measurements

Appendix E

Slug/Baildown Test Data, Field Methods, Analysis, and Interpretation

1.0 Field Methods

Slug or baildown tests were performed on nine monitoring wells installed by ESE during the Phase I RI. The test method used (i.e. slug or baildown) was determined through an evaluation of the recovery characteristics of each well during well development and pre-sample purging. Water levels in slug-tested wells were recorded using an Envirolab™ datalogger. Water levels in baildown-tested wells were recorded manually using an ET-89 electric tape.

An assumption inherent in the analysis of slug/baildown test data is that the water level in the well to be tested is at equilibrium with the saturated zone prior to the test. To establish that this condition existed, water levels were measured in the wells manually to determine whether the wells were at equilibrium. Experience at Fort Sheridan indicates that wells typically take several weeks or even months to recover completely after bailing before groundwater samples can be obtained. The rate of recovery is very slow (the time versus drawdown curve is very flat) and the impressed drawdown from the baildown or slug test would be an order of magnitude greater than the rise in water level that would be expected to occur during the test due to the existence of nonequilibrium conditions. Therefore, it was determined that conditions were adequately equilibrated for testing the wells provided that climatic or other pertinent factors did not change during the tests. Slug tests for wells that did not have constant water levels over a 24-hour period were normalized using a trend effect or an assumed constant rate water level change based on water level measurements taken prior to the tests.

1.1 Slug Test Field Methods

Water levels versus time in wells LF2MW6S and LF7MW4S were recorded using a datalogger and the slug-retrieval technique. First the equilibrium water levels were measured with an electric tape and recorded. Then a transducer with a five pound per square inch (psi) pressure range was inserted into the well to measure the water level. The transducer did not interfere with retrieval of the slug. After waiting for the water level to return to equilibrium, the transducer reading was recorded and a slug constructed of polyethylene was inserted into the well such that the entire slug was lower than the original water level. The water level in the well was then allowed to return to equilibrium conditions. During this time the Envirolab™ datalogger was programmed to collect water level measurements at the following intervals:

- 75 data points with one every 0.2 seconds
- 165 data points with one every 1 second
- 60 data points with one every 5 seconds
- 24 data points with one every 10 seconds
- 26 data points with one every 30 seconds
- one data point per minute until end of test

Equilibrium conditions in each well were verified by comparing the current reading of the transducer to the one recorded prior to slug immersion. When equilibrium conditions prevailed, the datalogger was programmed to start collecting data a few minutes later. Approximately two seconds after the data logger started collecting data (at a rate of one point every 0.2 seconds) the slug was removed from the well as quickly as possible. The datalogger recorded data at the previously mentioned time intervals until equilibration. Finally, the time/water level data was printed out prior to leaving the site to ensure that adequate data was collected. A similar procedure was used for wells B125MW1B and LF6MW4D.

2.0 Slug/Baildown Test Data Analysis

Analysis of monitoring well slug/baildown test data was performed using the Bouwer and Rice method. The Bouwer and Rice slug/baildown test was developed to measure hydraulic conductivity of the aquifer around boreholes (production, monitoring, or test wells) (Bouwer 1989). The test consists of quickly lowering or raising the water level in a well or borehole, which has equilibrated, and measuring its subsequent rise or fall as it returns to equilibrium.

The analysis of the data is based on the Thiem equation where the head differential impressed in the well (due to instantaneous slug withdrawal or bailing) is dissipated over an effective radius R_e. The natural logarithm of the ratio of R_e to r_w ($\ln(R_e/r_w)$) is calculated with an empirical equation developed by Bouwer and Rice to relate R_e to the geometry of the screen, well penetration depth, radius of the borehole, and aquifer thickness. The empirical equation was developed from data gathered using an electrical resistance analog and enables the calculation of $\ln(R_e/r_w)$ for use in the following equation:

where:

K = hydraulic conductivity (ft/min)
L = length of screen (ft)

$$K = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right)}{2L} \frac{1}{t} \ln\left(\frac{y_0}{y_t}\right)$$

r_c= well casing radius (ft)
r_w= borehole radius (ft)
t = time (min)
y_o= drawdown at time t = 0 (ft)
y_t= drawdown at time t = t (ft)

The nature of the above equation is such that all of the variables are constants including $\frac{1}{t} \ln\left(\frac{y_0}{y_t}\right)$ thus the time drawdown data collected in the field must yield a straight line when plotted as ln y_t versus t (Bouwer and Rice, 1976). The performance and analysis of the slug test involves collecting the time and water level data, generating a plot of ln y_t versus t, solving for $\ln(R_e/r_w)$ using the empirical equations and solving for the hydraulic conductivity K using the equation above. For a more complete explanation of the method, see Bouwer and Rice, 1976; Bouwer, 1989; and Bouwer, 1989b.

Data collected at Fort Sheridan with the Envirolab™ datalogger was downloaded to a personal computer and formatted for input into a spreadsheet. Data collected manually was entered directly into the spreadsheet. Time/water level data were then used to calculate elapsed time (starting at slug or bailer withdrawal) and the corresponding drawdown for each time. For each well, these values of elapsed time and drawdown were then entered into a data set along with the following input variables:

y_o , the impressed head;
r_c , the well casing radius;
r_w , the borehole radius;
b , the aquifer thickness;
L , the screen length; and
H , the well penetration depth.

The data sets were then used as input to Aqtesolv™, a groundwater applications software package designed to perform the Bouwer and Rice slug test plotting and

calculation. The input variables are summarized in Table 2-1, and the time/drawdown data are included as Attachment A of this appendix. The program generates a plot of the time/drawdown data, linearly regresses a preliminary straight line to the data and solves for a preliminary value of hydraulic conductivity. The program user can then improve the fit using a curve-matching technique or statistical methods to arrive at an improved value of hydraulic conductivity. Finally, the program allows the user to generate a plot of the data which shows the time versus drawdown curve, the input data, the calculated value of hydraulic conductivity, and other project information (e.g. project name and number). The data plots generated with Aqtesolv™ for the Fort Sheridan slug tests are included as Attachment B of this appendix.

In several of the tested wells (LF6MW04S, LF2MW08D, LF5MW04S, B125MW01B, LF2MW06S, LF7MW04S), the water level was below the top of the screen. This implies that the water level during recovery rose not only in the well screen, but also in the gravel envelope around the screen. This phenomenon is termed a skin effect and causes an underestimation of hydraulic conductivity. In order to compensate for this effect, it is necessary to calculate an equivalent value of r_c (Bouwer 1989). Calculation of an equivalent value for r_c (r_{ceq}) is based on the total free-water surface area in the well and gravel pack and is calculated with the following equation:

$$r_{ceq} = \pi r_c^2 + \pi(r_w^2 - r_c^2)n$$

where:

n = porosity of the gravel pack (0.25)

$r_w - r_c$ = thickness of gravel pack

(0.48 ft - 0.167 ft)

r_{ceq} = equivalent radius of casing

The equivalent radius of casing used for wells LF6MW04D, B208MW06, and B208MW07 was 0.167 feet while the others were 0.28 feet.

Review of the plots for wells LF7MW04S and LF6MW04D reveals that the early portion of the time drawdown curve is a steep straight line followed by a flatter straight line. The tail of the curve approaches the horizontal. This curve shape is typical of slug test data collected where the initial water level is within the screened portion of the well. The "Double Straight Line" effect is explained by Bouwer (1989) as the sudden inflow of water from the gravel envelope immediately after slug removal. In plots where the double straight line effect is prevalent, the second, less steep, straight line should be selected as it is more indicative of the flow from the

undisturbed aquifer into the well. In wells where the time of recovery is extremely long (i.e., greater than 5 hours) the double straight line effect is not as noticeable due to of the scale of the plot.

3.0 Slug/Baildown Test Interpretation

Results of the slug tests are presented in Table 3-1. The slug tests performed in wells completed in clays (i.e., all wells except LF7MW04S and LF2MW06S) exhibited hydraulic conductivities in the range of 5.8×10^{-7} ft/min (2.9×10^{-7} cm/sec) to 8.5×10^{-5} ft/min (4.3×10^{-5} cm/s). Wells LF7MW04S and LF2MW06S had hydraulic conductivities of 2.5×10^{-3} ft/min (1.3×10^{-3} cm/sec) and 2.4×10^{-2} ft/min (1.2×10^{-2} cm/sec), respectively.

These results reflect the generally low permeability of the sediments underlying Fort Sheridan. Hydraulic conductivities in the range of 10^{-6} ft/min are characteristic of clay sediments and indicate an overall low groundwater flow rate. The higher hydraulic conductivities calculated for wells LF2MW06S and LF7MW04S occur in shallow sand and gravel deposits along the beaches. These sand and gravel deposits extend to the ground surface and are part of the beach.

Rationale and Calculation of a Geometric Mean

Hydraulic conductivity, K, is a measure of a porous medium's ability to transmit water. These K values may vary by two orders of magnitude within a hydrogeological unit. Statistical distributions of the degree of heterogeneity in a geological formation indicate that the probability density function for hydraulic conductivity is log-normal. A log-normal distribution is one for which a parameter Y, defined as Y = logK, shows a normal distribution (Freeze and Cherry, 1979). Representative averages of log-normally distributed values are best determined by a geometric mean. A geometric mean is obtained by taking the natural log of each value, finding the arithmetic mean of the natural logs and then determining the exponential (e^x) of that value.

SLUG TEST ANALYSIS 8203MW07
compny
Environmental Science & Eng.
projno
490-2087-0600
client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/14/91
slugt1
1.65
0.167
0.48
slugt2
20.18
10
20.18
tsdata

0.5	1.49	1
1.07	1.48	1
1.38	1.48	1
3.05	1.47	1
8.38	1.46	1
11.88	1.45	1
15.88	1.45	1
19.88	1.44	1
24.88	1.43	1
29.88	1.42	1
34.88	1.41	1
39.88	1.41	1
44.88	1.4	1
49.88	1.39	1
59.88	1.38	1
69.88	1.37	1
79.88	1.35	1
89.88	1.34	1
99.88	1.32	1
109.88	1.31	1
119.88	1.3	1
129.88	1.29	1
139.88	1.27	1
149.88	1.27	1
159.88	1.26	1
169.88	1.25	1
179.88	1.24	1
189.88	1.22	1
230.88	1.18	1
259.88	1.14	1
287.88	1.12	1
293.88	1.05	1
418.88	0.99	1
523.88	0.91	1
583.88	0.87	1
643.88	0.82	1
731.88	0.77	1
1180.88	0.54	1
1321.88	0.49	1
1524.88	0.42	1

215	0.77	1
454.99	0.55	1
565	0.48	1
640	0.45	1
700	0.42	1
760	0.4	1
820	0.38	1
880.01	0.36	1
940.01	0.34	1
999.99	0.32	1
1059.99	0.31	1
1120	0.3	1
1180	0.28	1
1240	0.27	1
1300	0.26	1
1360	0.25	1
1420.01	0.24	1
1440	0.23	1
1455	0.23	1
1470	0.23	1
1485	0.21	1
1500	0.22	1
1515	0.22	1
1530	0.21	1
1545	0.21	1
1560	0.2	1
1575	0.21	1
1590	0.2	1
1605	0.2	1
1620	0.2	1
1635	0.19	1
1650	0.19	1
1665	0.19	1
1680	0.17	1
1695	0.18	1
1710	0.16	1
1725	0.16	1
1740	0.16	1
1755	0.16	1
1770	0.16	1
1785	0.16	1
1800	0.16	1
1815	0.15	1

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Environmental Science & Eng.
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USATHAMA
locsit
Ft Sheridan IL
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8/13/91
slugt1
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slugt2
5.12
5
5.12
tsdata

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0.02667	1.64	1
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0.03333	1.62	1
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0.04333	1.58	1
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0.05000	1.55	1
0.05333	1.55	1
0.05667	1.54	1
0.06000	1.51	1
0.06333	1.51	1
0.06667	1.49	1
0.07000	1.48	1
0.07333	1.46	1
0.07667	1.46	1
0.08000	1.44	1
0.08333	1.43	1
0.08667	1.42	1
0.09000	1.41	1
0.09333	1.39	1
0.09667	1.38	1
0.10000	1.37	1
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0.11333	1.32	1
0.11667	1.31	1
0.12000	1.3	1
0.12333	1.29	1
0.12667	1.28	1
0.13000	1.26	1
0.13333	1.25	1
0.13667	1.24	1
0.14000	1.23	1
0.14333	1.22	1
0.14667	1.21	1
0.15000	1.2	1
0.15333	1.19	1
0.15667	1.18	1
0.16000	1.17	1
0.16333	1.16	1
0.16667	1.15	1
0.17000	1.14	1

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Ft Sheridan IL
tstdat
8/10/91
slugt1
1.56
0.28
0.48
slugt2
3.88
5
3.88
tsdata

0.07	1.47	1
0.08	1.56	1
0.10	1.42	1
0.12	1.31	1
0.13	1.19	1
0.15	1.09	1
0.17	1.01	1
0.18	0.95	1
0.20	0.91	1
0.22	0.88	1
0.23	0.86	1
0.25	0.84	1
0.27	0.83	1
0.28	0.82	1
0.30	0.81	1
0.32	0.8	1
0.33	0.8	1
0.35	0.79	1
0.37	0.78	1
0.38	0.78	1
0.40	0.77	1
0.42	0.77	1
0.43	0.77	1
0.45	0.76	1
0.47	0.76	1
0.48	0.76	1
0.50	0.75	1
0.58	0.74	1
0.67	0.73	1
0.75	0.73	1
0.83	0.73	1
0.92	0.72	1
1.00	0.71	1
1.08	0.71	1
1.17	0.71	1
1.25	0.71	1
1.33	0.7	1
1.42	0.7	1
1.50	0.7	1
1.58	0.7	1
1.67	0.69	1
1.75	0.69	1
1.83	0.69	1
1.92	0.69	1
2.00	0.69	1
2.08	0.69	1

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Environmental Science & Eng.
projno
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client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/14/91
slugt1
2.77
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0.48
slugt2
16.58
10
16.58
tsdata

0.5	1.3	1
1.07	1.3	1
1.5	1.3	1
2	1.3	1
3	1.3	1
4	1.29	1
5	1.29	1
6	1.29	1
11	1.28	1
17	1.29	1
22	1.28	1
27	1.28	1
32	1.28	1
50	1.27	1
86	1.26	1
114	1.26	1
145	1.25	1
174	1.24	1
205	1.24	1
233	1.23	1
285	1.21	1
315	1.21	1
342	1.21	1
408	1.19	1
474	1.18	1
578	1.18	1
640	1.17	1
699	1.17	1
787	1.16	1
1236	1.12	1
1377	1.12	1
1592	1.11	1

SLUG TEST ANALYSIS LF2MW6S
compny
Environmental Science & Eng.
projno
490-2087-0600
client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/13/91
slugt1
1.74
0.28
0.48
slugt2
3.87
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3.87
tsdata

0.00333	0.09	1
0.00667	1.13	1
0.01000	1.22	1
0.01333	1.04	1
0.01667	1.74	1
0.02000	1.54	1
0.02333	1.53	1
0.02667	1.51	1
0.03000	1.47	1
0.03333	1.42	1
0.03667	1.39	1
0.04000	1.35	1
0.04333	1.32	1
0.04667	1.28	1
0.05000	1.23	1
0.05333	1.21	1
0.05667	1.17	1
0.06000	1.14	1
0.06333	1.11	1
0.06667	1.07	1
0.07000	1.05	1
0.07333	1.01	1
0.07667	0.99	1
0.08000	0.95	1
0.08333	0.92	1
0.08667	0.89	1
0.09000	0.87	1
0.09333	0.84	1
0.09667	0.82	1
0.10000	0.79	1
0.10333	0.77	1
0.10667	0.75	1
0.11000	0.73	1
0.11333	0.71	1
0.11667	0.69	1
0.12000	0.67	1
0.12333	0.65	1
0.12667	0.63	1
0.13000	0.62	1
0.13333	0.61	1
0.13667	0.59	1
0.14000	0.58	1
0.14333	0.57	1
0.14667	0.55	1
0.15000	0.54	1
0.15333	0.53	1

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1.08333	0.07	1
1.10000	0.07	1
1.11667	0.07	1
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1.15000	0.06	1
1.16667	0.06	1
1.18333	0.06	1
1.20000	0.06	1
1.21667	0.05	1
1.23333	0.05	1
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1.26667	0.05	1
1.28333	0.05	1
1.30000	0.05	1
1.31667	0.05	1
1.33333	0.05	1
1.35000	0.05	1
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1.86667	0.03	1
1.88333	0.03	1
1.90000	0.02	1
1.91667	0.02	1
1.93333	0.02	1
1.95000	0.02	1
1.96667	0.02	1
1.98333	0.02	1
2.00000	0.02	1
2.01667	0.02	1
2.03333	0.02	1
2.05000	0.02	1
2.06667	0.02	1
2.08333	0.02	1
2.10000	0.02	1
2.11667	0.02	1
2.13333	0.02	1
2.15000	0.02	1

4.46667	0.01	1
4.55000	0.01	1
4.63333	0	1
4.71667	0	1
4.80000	0	1
4.88333	0	1
4.96667	0.01	1
5.05000	0	1
5.13333	0	1
5.21667	0	1
5.30000	0	1
5.38333	0	1
5.46667	0	1
5.55000	0	1
5.63333	0	1
5.71667	0	1
5.80000	0	1
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9.30000	0	1
9.46667	0	1
9.63333	0	1
9.80000	0	1
9.96667	0	1
10.13333	0	1
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11.13333	0	1
11.30000	0	1
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SLUG TEST ANALYSIS LF2MW08D
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Environmental Science & Eng.
projno
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client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/15/91
slugt1
1.61
0.28
0.48
slugt2
8.19
10
8.19
tsdata

0.25	1.24	1
0.5	1.21	1
1.65	1.02	1
2.08	0.99	1
2.75	0.96	1
3.25	0.95	1
3.6	0.94	1
4.5	0.93	1
4.83	0.92	1
5.32	0.91	1
7.5	0.91	1
9	0.90	1
10	0.90	1
12	0.89	1
14	0.88	1
16	0.88	1
18	0.87	1
20	0.87	1
25	0.87	1
30	0.86	1
40	0.86	1
50	0.85	1
60	0.85	1
87	0.84	1
121	0.84	1
182	0.84	1
290	0.83	1
435	0.88	1

SLUG TEST ANALYSIS B208MW0
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Environmental Science & Eng.
projno
490-2087-0600
client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/14/91
slugt1
1.65
0.167
0.48
slugt2
20.18
10
20.18
tsdata

0.5	1.49	1
1.07	1.48	1
1.38	1.48	1
3.05	1.47	1
8.38	1.46	1
11.88	1.45	1
15.88	1.45	1
19.88	1.44	1
24.88	1.43	1
29.88	1.42	1
34.88	1.41	1
39.88	1.41	1
44.88	1.4	1
49.88	1.39	1
59.88	1.38	1
69.88	1.37	1
79.88	1.35	1
89.88	1.34	1
99.88	1.32	1
109.88	1.31	1
119.88	1.3	1
129.88	1.29	1
139.88	1.27	1
149.88	1.27	1
159.88	1.26	1
169.88	1.25	1
179.88	1.24	1
189.88	1.22	1
230.88	1.18	1
259.88	1.14	1
287.88	1.12	1
293.88	1.05	1
418.88	0.99	1
523.88	0.91	1
583.88	0.87	1
643.88	0.82	1
731.88	0.77	1
1180.88	0.54	1
1321.88	0.49	1
1524.88	0.42	1

215	0.77	1
454.99	0.55	1
565	0.48	1
640	0.45	1
700	0.42	1
760	0.4	1
820	0.38	1
880.01	0.36	1
940.01	0.34	1
999.99	0.32	1
1059.99	0.31	1
1120	0.3	1
1180	0.28	1
1240	0.27	1
1300	0.26	1
1360	0.25	1
1420.01	0.24	1
1440	0.23	1
1455	0.23	1
1470	0.23	1
1485	0.21	1
1500	0.22	1
1515	0.22	1
1530	0.21	1
1545	0.21	1
1560	0.2	1
1575	0.21	1
1590	0.2	1
1605	0.2	1
1620	0.2	1
1635	0.19	1
1650	0.19	1
1665	0.19	1
1680	0.17	1
1695	0.18	1
1710	0.16	1
1725	0.16	1
1740	0.16	1
1755	0.16	1
1770	0.16	1
1785	0.16	1
1800	0.16	1
1815	0.15	1

SLUG TEST ANALYSIS LF7MW4S
compny
Environmental Science & Eng.
projno
490-2087-0600
client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/13/91
slugt1
1.85
0.28
0.48
slugt2
5.12
5
5.12
tsdata

0.02000	1.85	1
0.02333	1.64	1
0.02667	1.64	1
0.03000	1.63	1
0.03333	1.62	1
0.03667	1.61	1
0.04000	1.6	1
0.04333	1.58	1
0.04667	1.57	1
0.05000	1.55	1
0.05333	1.55	1
0.05667	1.54	1
0.06000	1.51	1
0.06333	1.51	1
0.06667	1.49	1
0.07000	1.48	1
0.07333	1.46	1
0.07667	1.46	1
0.08000	1.44	1
0.08333	1.43	1
0.08667	1.42	1
0.09000	1.41	1
0.09333	1.39	1
0.09667	1.38	1
0.10000	1.37	1
0.10333	1.36	1
0.10667	1.34	1
0.11000	1.33	1
0.11333	1.32	1
0.11667	1.31	1
0.12000	1.3	1
0.12333	1.29	1
0.12667	1.28	1
0.13000	1.26	1
0.13333	1.25	1
0.13667	1.24	1
0.14000	1.23	1
0.14333	1.22	1
0.14667	1.21	1
0.15000	1.2	1
0.15333	1.19	1
0.15667	1.18	1
0.16000	1.17	1
0.16333	1.16	1
0.16667	1.15	1
0.17000	1.14	1

1.10016	0.52	1
1.116	0.52	1
1.13328	0.52	1
1.15056	0.51	1
1.1664	0.51	1
1.18368	0.5	1
1.19952	0.5	1
1.2168	0.5	1
1.23264	0.5	1
1.24992	0.49	1
1.2672	0.49	1
1.28304	0.49	1
1.30032	0.48	1
1.31616	0.48	1
1.33344	0.48	1
1.34928	0.48	1
1.36656	0.47	1
1.38384	0.47	1
1.39968	0.47	1
1.41696	0.47	1
1.4328	0.46	1
1.45008	0.46	1
1.46592	0.46	1
1.4832	0.46	1
1.50048	0.46	1
1.51632	0.45	1
1.5336	0.45	1
1.54944	0.45	1
1.56672	0.44	1
1.58256	0.44	1
1.59984	0.44	1
1.61712	0.44	1
1.63296	0.44	1
1.65024	0.43	1
1.66608	0.43	1
1.68336	0.43	1
1.6992	0.43	1
1.71648	0.42	1
1.73376	0.42	1
1.7496	0.42	1
1.76688	0.42	1
1.78272	0.42	1
1.8	0.42	1
1.81584	0.41	1
1.83312	0.41	1
1.8504	0.41	1
1.86624	0.41	1
1.88352	0.4	1
1.89936	0.4	1
1.91664	0.4	1
1.93392	0.4	1
1.94976	0.4	1
1.96704	0.39	1
1.98288	0.39	1
2.00016	0.39	1
2.016	0.39	1
2.03328	0.39	1
2.05056	0.38	1
2.0664	0.38	1
2.08368	0.38	1
2.09952	0.38	1
2.1168	0.38	1
2.13264	0.38	1
2.14992	0.37	1
2.1672	0.37	1
2.18304	0.37	1

4.63392	0.21	1
4.716	0.21	1
4.79952	0.2	1
4.88304	0.2	1
4.96656	0.2	1
5.05008	0.2	1
5.1336	0.2	1
5.21712	0.19	1
5.2992	0.19	1
5.38272	0.19	1
5.46624	0.18	1
5.54976	0.18	1
5.63328	0.18	1
5.7168	0.18	1
5.80032	0.18	1
5.88384	0.17	1
5.96592	0.17	1
6.04944	0.17	1
6.13296	0.17	1
6.21648	0.16	1
6.3	0.16	1
6.38352	0.16	1
6.46704	0.15	1
6.55056	0.15	1
6.63264	0.15	1
6.71616	0.14	1
6.79968	0.14	1
6.8832	0.14	1
6.96672	0.14	1
7.05024	0.13	1
7.13376	0.13	1
7.21728	0.13	1
7.29936	0.13	1
7.38288	0.12	1
7.4664	0.12	1
7.54992	0.12	1
7.63344	0.12	1
7.71696	0.12	1
7.80048	0.12	1
7.88256	0.12	1
7.96608	0.11	1
8.13312	0.11	1
8.30016	0.11	1
8.4672	0.1	1
8.6328	0.1	1
8.79984	0.1	1
8.96688	0.1	1
9.13248	0.1	1
9.29952	0.1	1
9.46656	0.1	1
9.6336	0.1	1
9.80064	0.09	1
9.96624	0.09	1
10.13328	0.09	1
10.30032	0.09	1
10.46592	0.09	1
10.63296	0.09	1
10.8	0.09	1
10.96704	0.08	1
11.13264	0.08	1
11.29968	0.08	1
11.46672	0.08	1
11.63376	0.08	1
11.79936	0.08	1
11.9664	0.08	1
12.46608	0.08	1

SLUG TEST ANALYSIS B125MW15
compny
Environmental Science & Eng.
projno
490-2087-0600
client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/10/91
slugt1
1.56
0.28
0.48
slugt2
3.88
5
3.88
tsdata

0.07	1.47	1
0.08	1.56	1
0.10	1.42	1
0.12	1.31	1
0.13	1.19	1
0.15	1.09	1
0.17	1.01	1
0.18	0.95	1
0.20	0.91	1
0.22	0.88	1
0.23	0.86	1
0.25	0.84	1
0.27	0.83	1
0.28	0.82	1
0.30	0.81	1
0.32	0.8	1
0.33	0.8	1
0.35	0.79	1
0.37	0.78	1
0.38	0.78	1
0.40	0.77	1
0.42	0.77	1
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0.45	0.76	1
0.47	0.76	1
0.48	0.76	1
0.50	0.75	1
0.58	0.74	1
0.67	0.73	1
0.75	0.73	1
0.83	0.73	1
0.92	0.72	1
1.00	0.71	1
1.08	0.71	1
1.17	0.71	1
1.25	0.71	1
1.33	0.7	1
1.42	0.7	1
1.50	0.7	1
1.58	0.7	1
1.67	0.69	1
1.75	0.69	1
1.83	0.69	1
1.92	0.69	1
2.00	0.69	1
2.08	0.69	1

SLUG TEST ANALYSIS B208MWCb
compny
Environmental Science & Eng.
projno
490-2087-0600
client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/14/91
slugt1
2.77
0.167
0.48
slugt2
16.58
10
16.58
tsdata

0.5	1.3	1
1.07	1.3	1
1.5	1.3	1
2	1.3	1
3	1.3	1
4	1.29	1
5	1.29	1
6	1.29	1
11	1.28	1
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22	1.28	1
27	1.28	1
32	1.28	1
50	1.27	1
86	1.26	1
114	1.26	1
145	1.25	1
174	1.24	1
205	1.24	1
233	1.23	1
285	1.21	1
315	1.21	1
342	1.21	1
408	1.19	1
474	1.18	1
578	1.18	1
640	1.17	1
699	1.17	1
787	1.16	1
1236	1.12	1
1377	1.12	1
1592	1.11	1

SLUG TEST ANALYSIS LF2MW6S
compny
Environmental Science & Eng.
projno
490-2087-0600
client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/13/91
slugt1
1.74
0.28
0.48
slugt2
3.87
5
3.87
tsdata

0.00333	0.09	1
0.00667	1.13	1
0.01000	1.22	1
0.01333	1.04	1
0.01667	1.74	1
0.02000	1.54	1
0.02333	1.53	1
0.02667	1.51	1
0.03000	1.47	1
0.03333	1.42	1
0.03667	1.39	1
0.04000	1.35	1
0.04333	1.32	1
0.04667	1.28	1
0.05000	1.23	1
0.05333	1.21	1
0.05667	1.17	1
0.06000	1.14	1
0.06333	1.11	1
0.06667	1.07	1
0.07000	1.05	1
0.07333	1.01	1
0.07667	0.99	1
0.08000	0.95	1
0.08333	0.92	1
0.08667	0.89	1
0.09000	0.87	1
0.09333	0.84	1
0.09667	0.82	1
0.10000	0.79	1
0.10333	0.77	1
0.10667	0.75	1
0.11000	0.73	1
0.11333	0.71	1
0.11667	0.69	1
0.12000	0.67	1
0.12333	0.65	1
0.12667	0.63	1
0.13000	0.62	1
0.13333	0.61	1
0.13667	0.59	1
0.14000	0.58	1
0.14333	0.57	1
0.14667	0.55	1
0.15000	0.54	1
0.15333	0.53	1

1.06667	0.07	1
1.08333	0.07	1
1.10000	0.07	1
1.11667	0.07	1
1.13333	0.06	1
1.15000	0.06	1
1.16667	0.06	1
1.18333	0.06	1
1.20000	0.06	1
1.21667	0.05	1
1.23333	0.05	1
1.25000	0.05	1
1.26667	0.05	1
1.28333	0.05	1
1.30000	0.05	1
1.31667	0.05	1
1.33333	0.05	1
1.35000	0.05	1
1.36667	0.05	1
1.38333	0.05	1
1.40000	0.04	1
1.41667	0.04	1
1.43333	0.04	1
1.45000	0.04	1
1.46667	0.04	1
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1.50000	0.04	1
1.51667	0.04	1
1.53333	0.04	1
1.55000	0.03	1
1.56667	0.03	1
1.58333	0.03	1
1.60000	0.03	1
1.61667	0.03	1
1.63333	0.03	1
1.65000	0.03	1
1.66667	0.03	1
1.68333	0.03	1
1.70000	0.03	1
1.71667	0.03	1
1.73333	0.03	1
1.75000	0.03	1
1.76667	0.03	1
1.78333	0.03	1
1.80000	0.03	1
1.81667	0.03	1
1.83333	0.03	1
1.85000	0.03	1
1.86667	0.03	1
1.88333	0.03	1
1.90000	0.02	1
1.91667	0.02	1
1.93333	0.02	1
1.95000	0.02	1
1.96667	0.02	1
1.98333	0.02	1
2.00000	0.02	1
2.01667	0.02	1
2.03333	0.02	1
2.05000	0.02	1
2.06667	0.02	1
2.08333	0.02	1
2.10000	0.02	1
2.11667	0.02	1
2.13333	0.02	1
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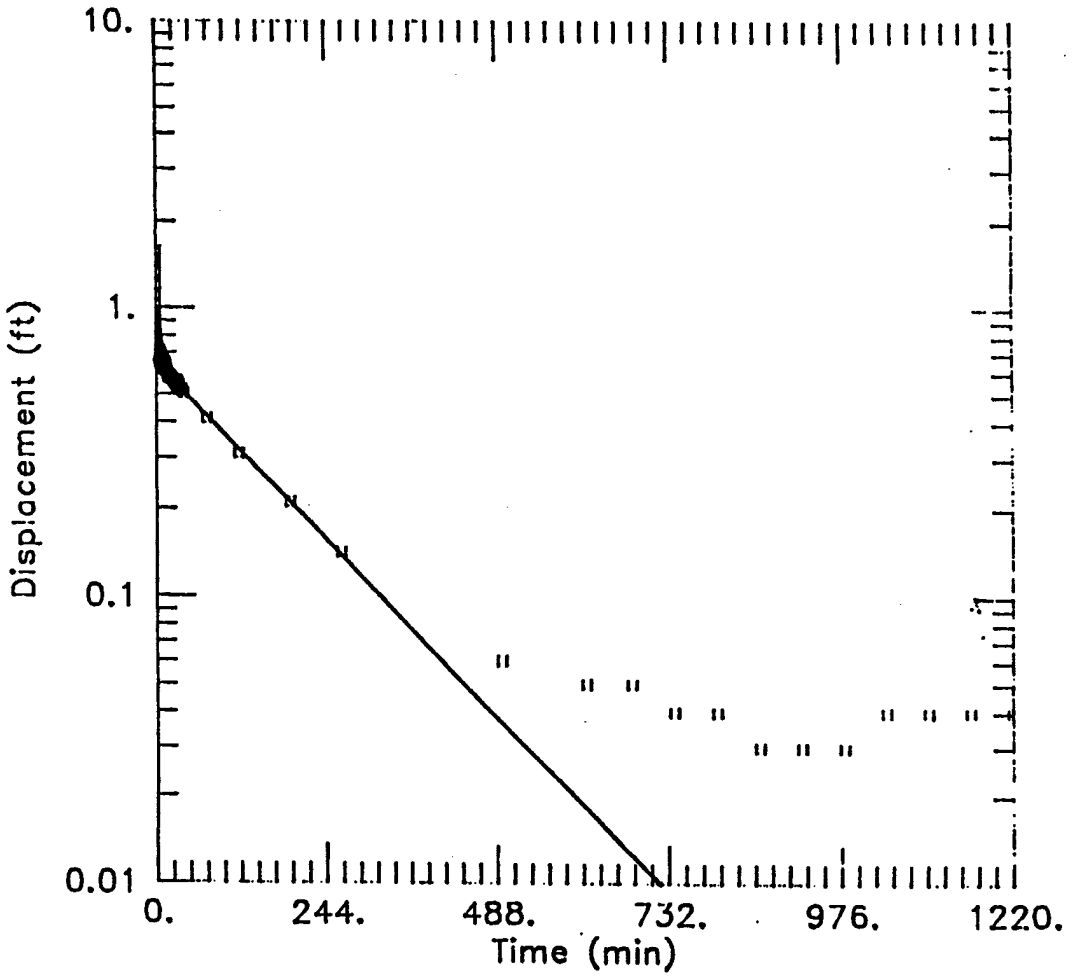
4.46667	0.01	1
4.55000	0.01	1
4.63333	0	1
4.71667	0	1
4.80000	0	1
4.88333	0	1
4.96667	0.01	1
5.05000	0	1
5.13333	0	1
5.21667	0	1
5.30000	0	1
5.38333	0	1
5.46667	0	1
5.55000	0	1
5.63333	0	1
5.71667	0	1
5.80000	0	1
5.88333	0	1
5.96667	0	1
6.05000	0	1
6.13333	0	1
6.21667	0	1
6.30000	0	1
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6.80000	0	1
6.88333	0	1
6.96667	0	1
7.05000	0	1
7.13333	0	1
7.21667	0	1
7.30000	0	1
7.38333	0	1
7.46667	0	1
7.55000	0	1
7.63333	0	1
7.71667	0	1
7.80000	0	1
7.88333	0	1
7.96667	0	1
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8.30000	0	1
8.46667	0	1
8.63333	0	1
8.80000	0	1
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9.30000	0	1
9.46667	0	1
9.63333	0	1
9.80000	0	1
9.96667	0	1
10.13333	0	1
10.30000	0	1
10.46667	0	1
10.63333	0	1
10.80000	0	1
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11.30000	0	1
11.46667	0	1
11.63333	0	1
11.80000	0	1

SLUG TEST ANALYSIS LF2MW03C
compny
Environmental Science & Eng.
projno
490-2087-0600
client
USATHAMA
locsit
Ft Sheridan IL
tstdat
8/15/91
slugt1
1.61
0.28
0.48
slugt2
8.19
10
8.19
tsdata

0.25	1.24	1
0.5	1.21	1
1.65	1.02	1
2.08	0.99	1
2.75	0.96	1
3.25	0.95	1
3.6	0.94	1
4.5	0.93	1
4.83	0.92	1
5.32	0.91	1
7.5	0.91	1
9	0.90	1
10	0.90	1
12	0.89	1
14	0.88	1
16	0.88	1
18	0.87	1
20	0.87	1
25	0.87	1
30	0.86	1
40	0.86	1
50	0.85	1
60	0.85	1
87	0.84	1
121	0.84	1
182	0.84	1
290	0.83	1
435	0.88	1

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS B125MW1B



DATA SET:
b125mw1b.dat
08/23/91

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer-Rice
TEST DATE:
8/10/91

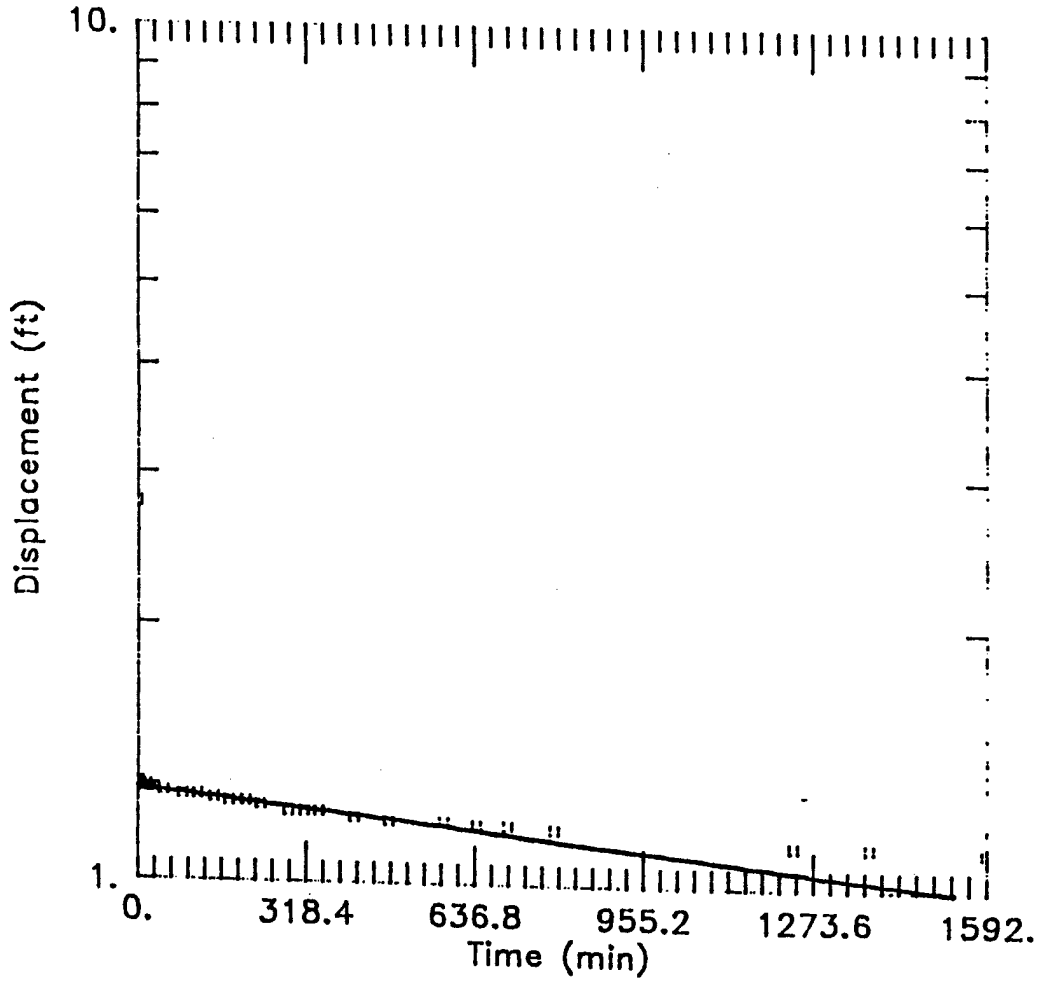
ESTIMATED PARAMETERS:
K = 6.9698E-05 ft/min
y0 = 0.6445 ft

TEST DATA:
H0 = 1.56 ft
rc = 0.28 ft
rw = 0.48 ft
L = 5. ft
b = 3.88 ft
H = 3.88 ft

Figure 3-11

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS B208MW06



DATA SET:
B208M6SL.DAT
09/10/91

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
8/14/91

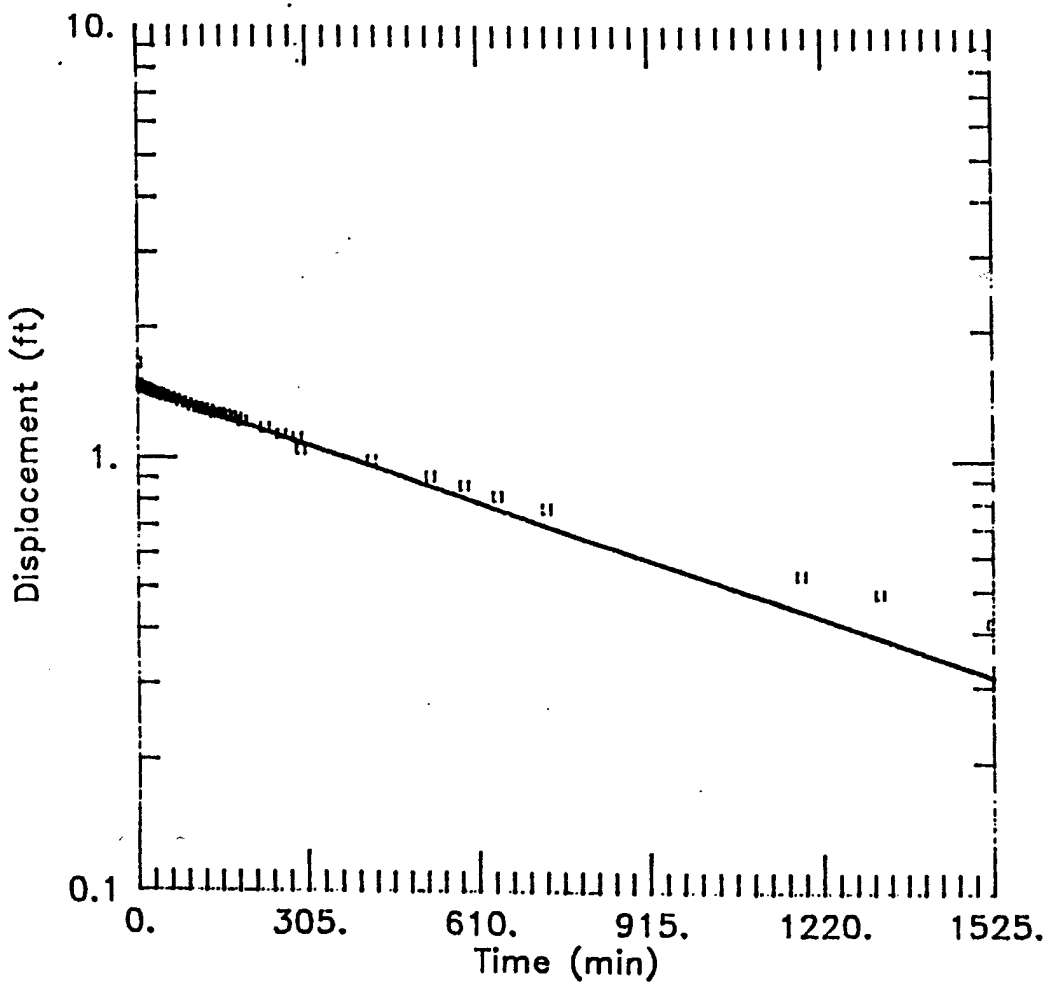
ESTIMATED PARAMETERS:
K = 5.8196E-07 ft/min
y0 = 1.284 ft

TEST DATA:
H0 = 2.77 ft
rc = 0.167 ft
rw = 0.48 ft
L = 10. ft
b = 16.58 ft
H = 16.58 ft

Figure 3-12

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS B208MW07



DATA SET:
B208M7SL.DAT
09/10/91

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
8/14/91

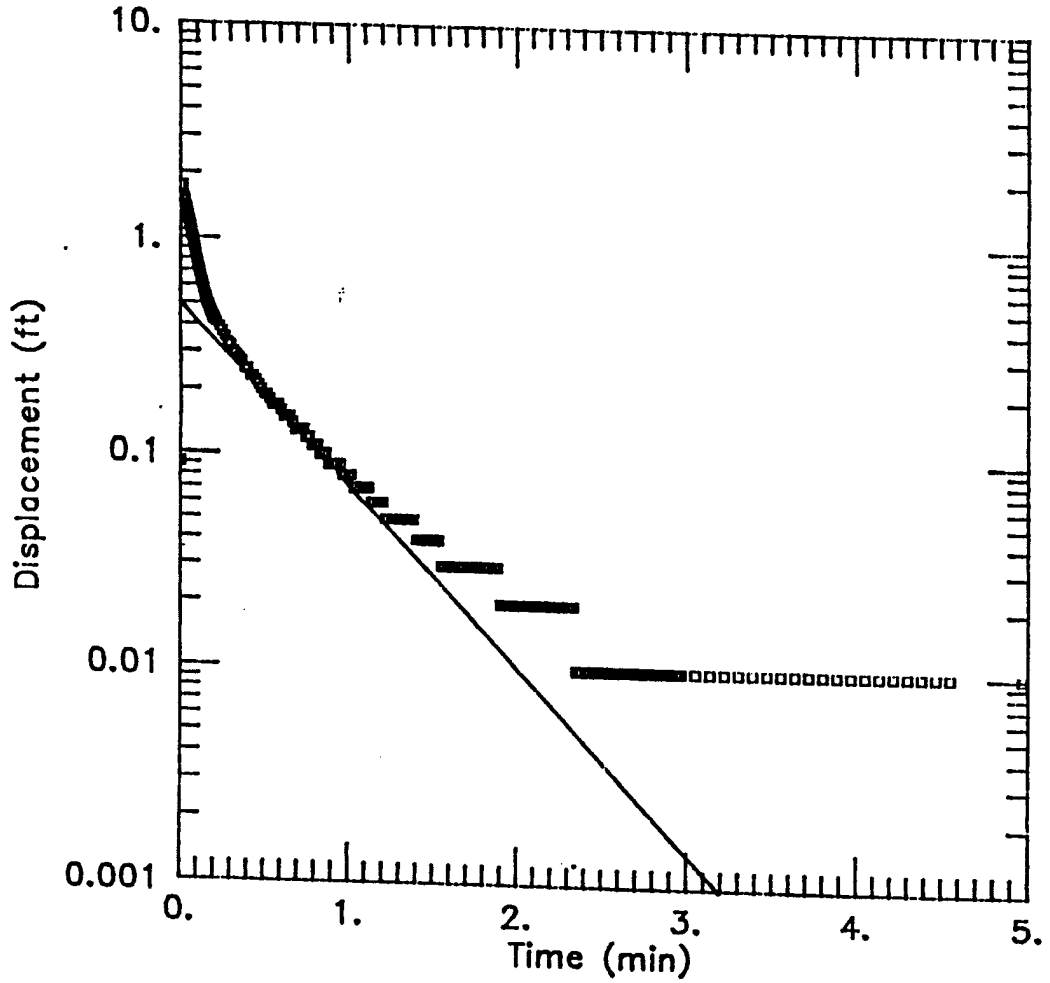
ESTIMATED PARAMETERS:
K = 3.7421E-06 ft/min
y0 = 1.471 ft

TEST DATA:
H0 = 1.65 ft
rc = 0.167 ft
rw = 0.48 ft
L = 10. ft
b = 20.18 ft
H = 20.18 ft

Figure 3-13

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS LF2MW6S



DATA SET:
LF2M6SSL.DAT
08/21/91

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer-Rice
TEST DATE:
8/13/91

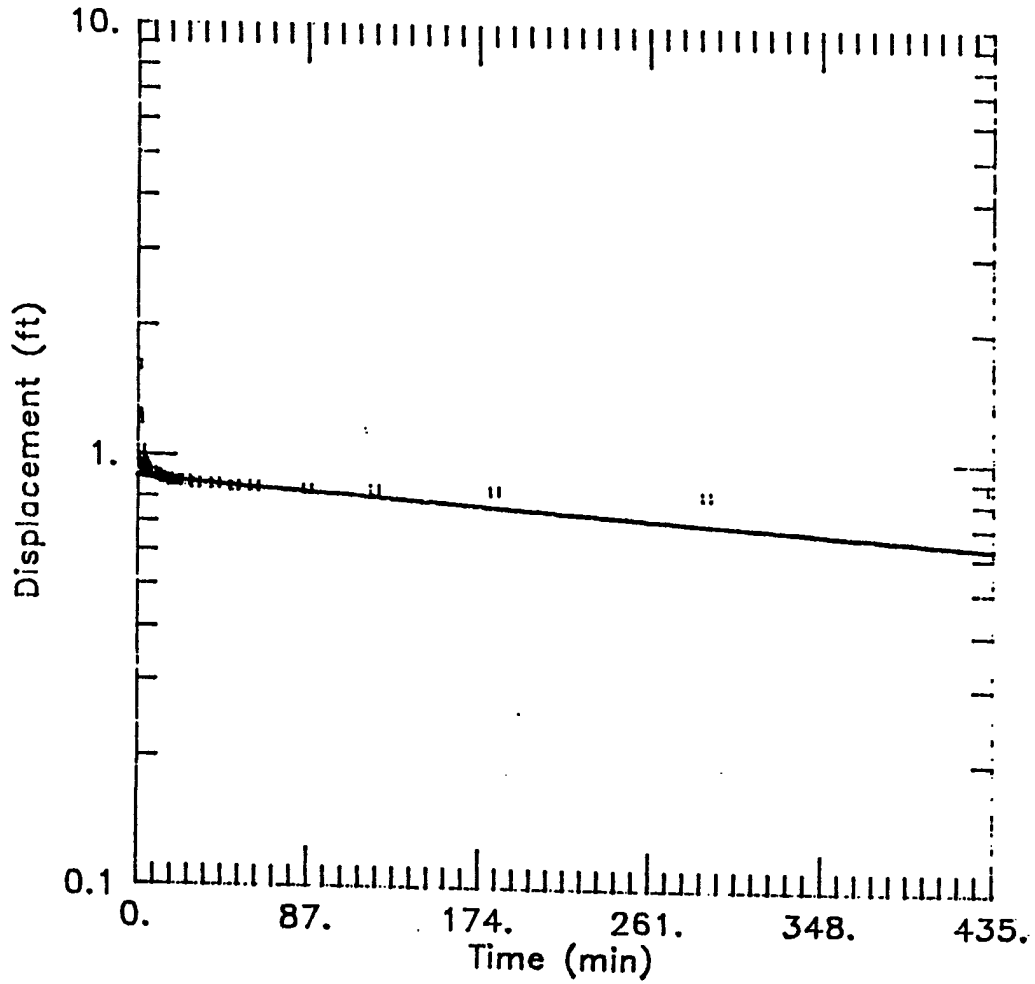
ESTIMATED PARAMETERS:
K = 0.02351 ft/min
y0 = 0.5059 ft

TEST DATA:
H0 = 1.74 ft
rc = 0.28 ft
rw = 0.48 ft
L = 5. ft
b = 3.87 ft
H = 3.87 ft

Figure 3-14

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS LF2MW08D



DATA SET:
LF2M8DSL.DAT
09/10/91

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
8/15/91

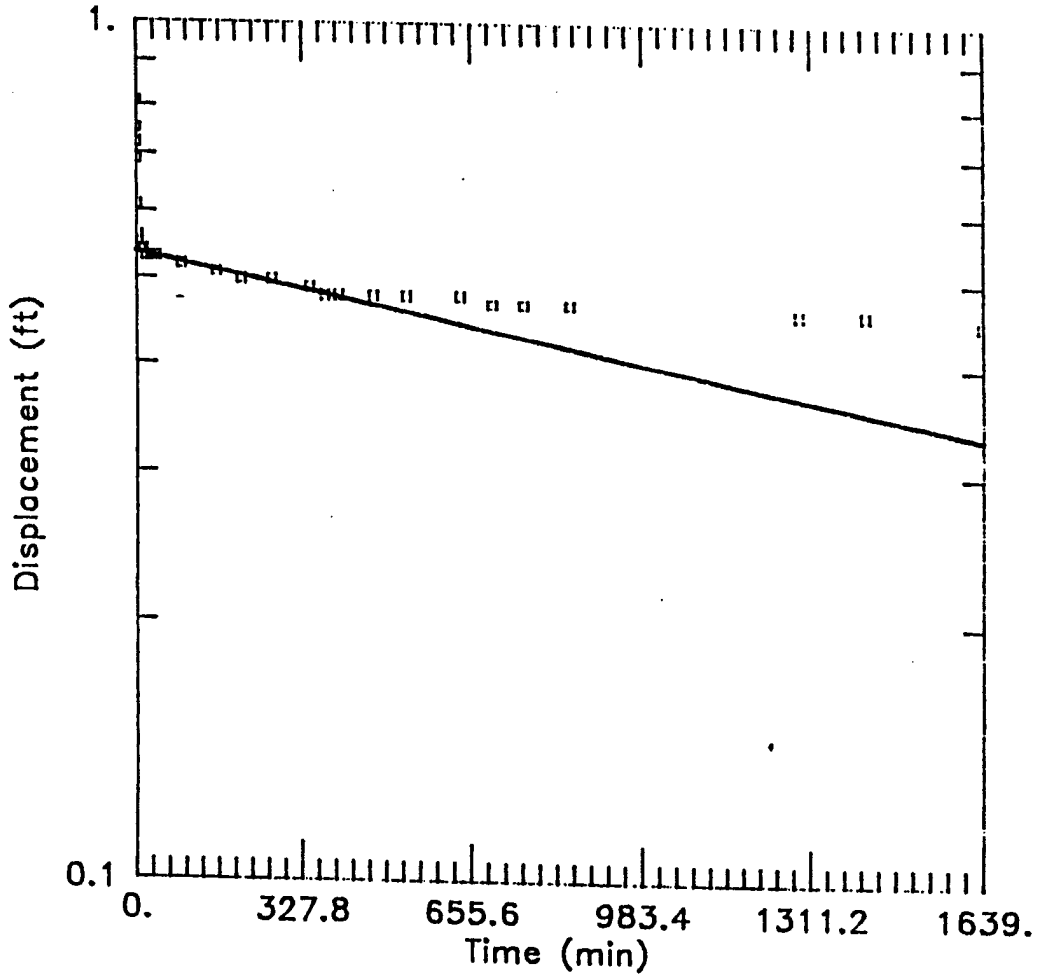
ESTIMATED PARAMETERS:
K = 6.642E-06 ft/min
y0 = 0.8935 ft

TEST DATA:
H0 = 1.61 ft
rc = 0.28 ft
rw = 0.48 ft
L = 10. ft
b = 8.19 ft
H = 8.19 ft

Figure 3-15

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS L5MW4S



DATA SET:
15M4SSLG.DAT
09/10/91

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
8/14/91

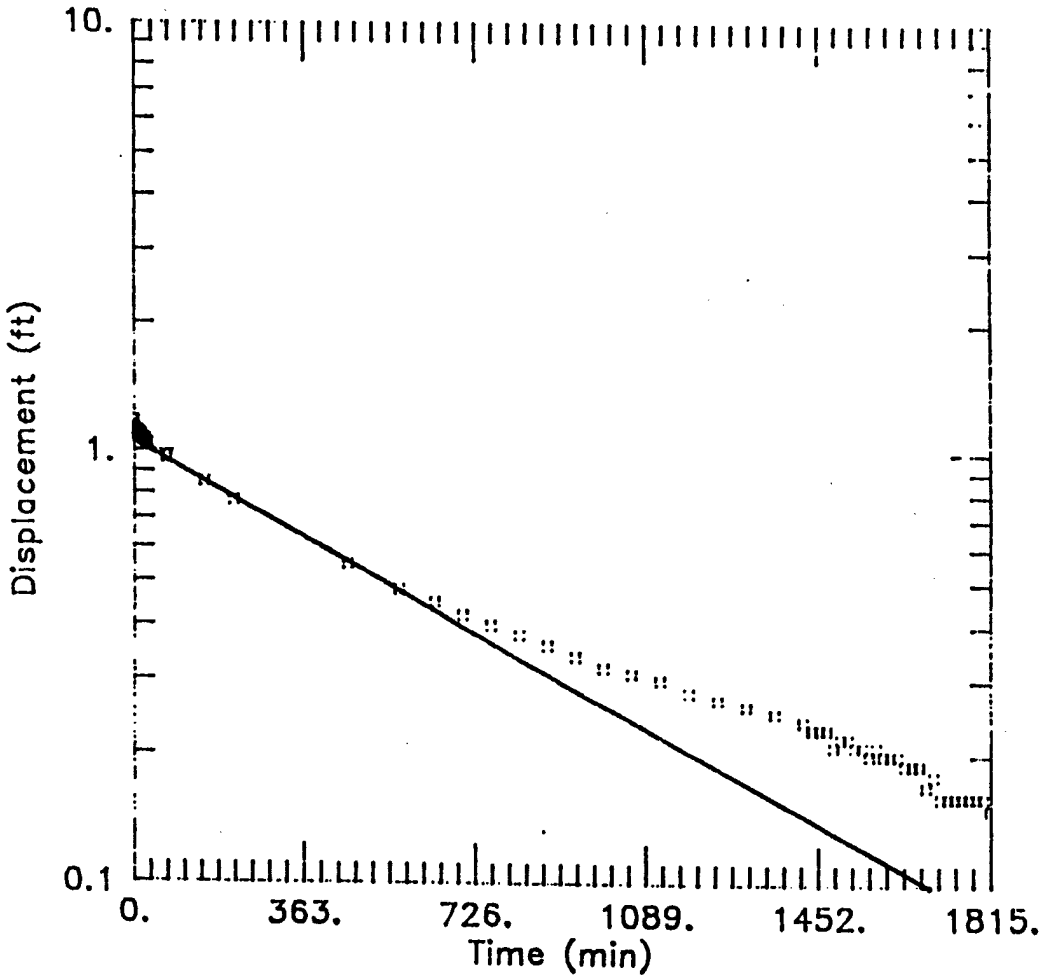
ESTIMATED PARAMETERS:
K = 2.6578E-06 ft/min
y0 = 0.5373 ft

TEST DATA:
H0 = 1.22 ft
rc = 0.28 ft
rw = 0.48 ft
L = 10. ft
b = 11.26 ft
H = 11.26 ft

Figure 3-16

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS LF6MW4D



DATA SET:
L6M4DSL2.DAT
09/10/91

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
8/09/91

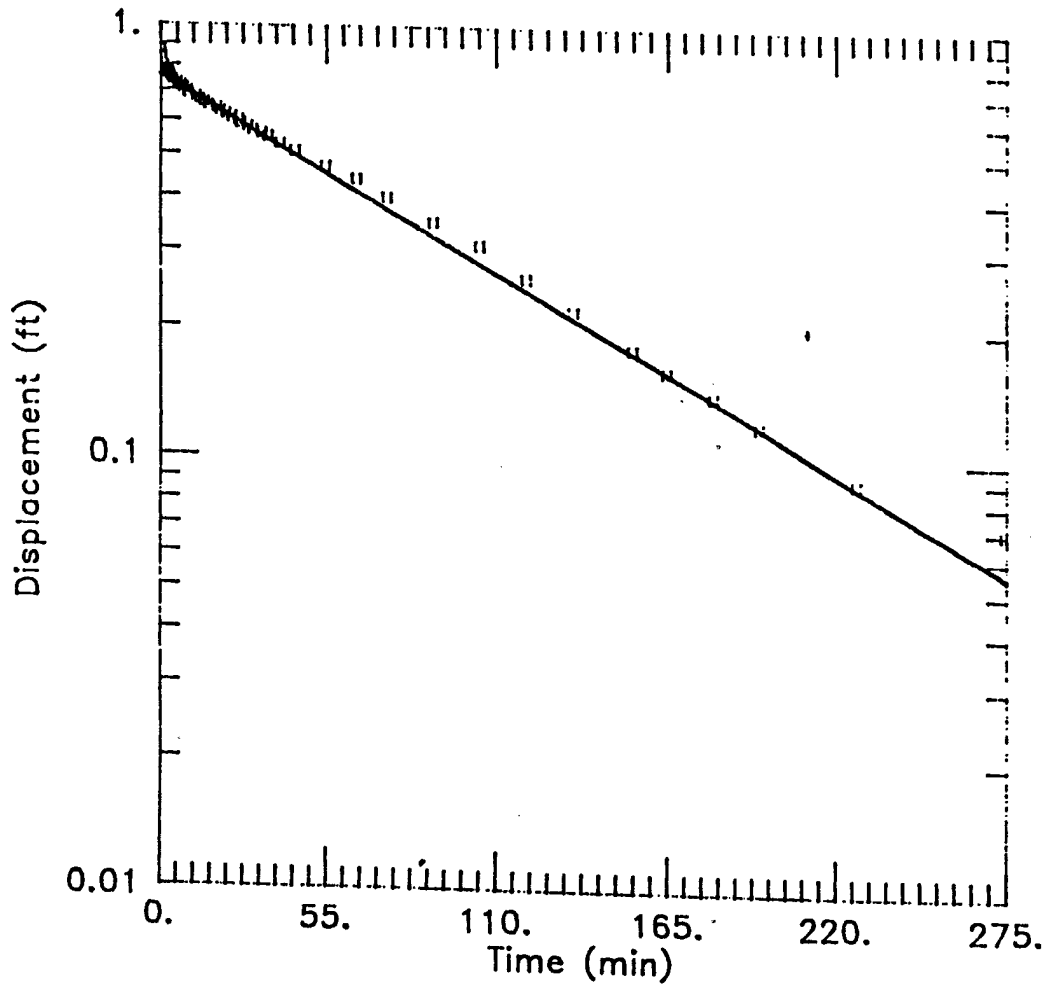
ESTIMATED PARAMETERS:
K = 3.3317E-06 ft/min
y0 = 1.057 ft

TEST DATA:
H0 = 1.18 ft
rc = 0.167 ft
rw = 0.48 ft
L = 20. ft
b = 50.23 ft
H = 50.23 ft

Figure 3-17

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS LF6MW04S



DATA SET:
L6M4SSLG.DAT
09/10/91

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
8/14/91

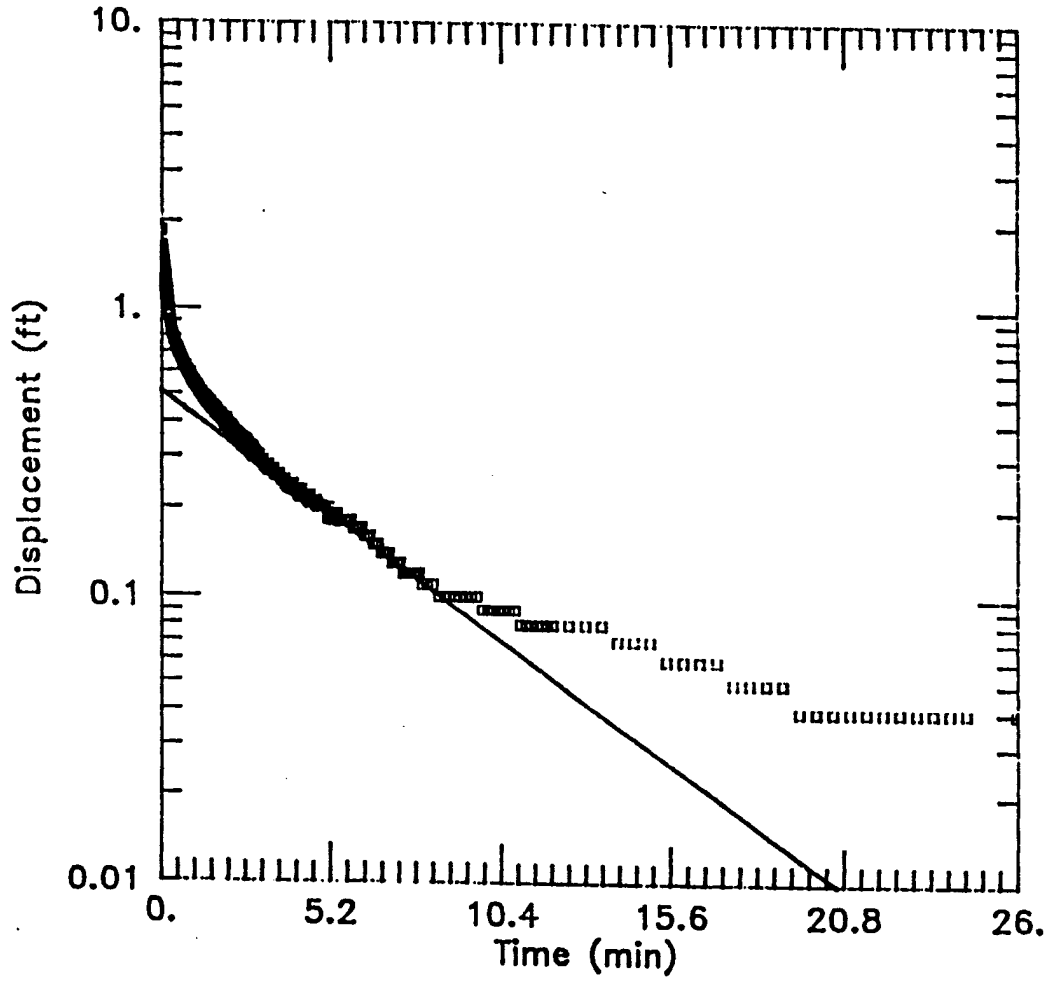
ESTIMATED PARAMETERS:
K = 8.5206E-05 ft/min
y0 = 0.7651 ft

TEST DATA:
H0 = 1.67 ft
rc = 0.28 ft
rw = 0.48 ft
L = 10. ft
b = 10.41 ft
H = 10.41 ft

Figure 3-18

Environmental Science & Eng.	Client: USATHAMA
Project No.: 490-2087-0600	Location: Ft Sheridan IL

SLUG TEST ANALYSIS LF7MW4S



DATA SET:
L7M4SSL1.DAT
08/21/91

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer-Rice
TEST DATE:
8/13/91

ESTIMATED PARAMETERS:
K = 0.002542 ft/min
y0 = 0.5129 ft

TEST DATA:
H0 = 1.85 ft
rc = 0.28 ft
rw = 0.48 ft
L = 5. ft
b = 5.12 ft
H = 5.12 ft

Figure 3-19

Appendix F

UXO Avoidance Services Letter Report

Letter Report
UXO Avoidance Services
Fort Sheridan, Illinois

This report is provided to document UXO Avoidance Efforts at Fort Sheridan. Refer to attached Figure 2-1 (excerpt from Work Plan) for location of work sites.

UXB Personnel

1. Mr. James Jackson (Sr. UXO Supervisor)
2. Mr. Tom Lee (UXO Specialist/Backhoe Operator)
3. Mr. Bill Whitten (UXO Specialist/Level "B" Equipment Operator

Equipment Requirements

4. Level "D" PPE (used during escort operations)
5. Level "B" PPE (used during trenching and downhole operations)
6. MK 26 Magnetometer (used to detect subsurface anomalies)
7. White Spectrum Metal Detector (used to detect ferrous and nonferrous anomalies)
8. Shonstedt Gradiometer (used to detect surface and near surface metal objects)
9. Cellular Phone (used for on-site communication and emergency notification)
10. Survey Kit (used to mark cleared pathways and sampling locations)
11. Vehicle (used for on and off site transportation of personnel and equipment)
12. Backhoe (used for excavation of trenches)

Chronology of Events

Oct 23, 1995

James Jackson and Tom Lee mobilized in.

Oct 24, 1995

Conducted Safety Briefing and checked equipment for operational readiness. Cleared paths into the former ammunition magazines and buildings 172 and 173.

Oct 25, 1995

Conducted a geophysical survey of landfill 2 area; buildings 57A, 57C, and former 57B.

Oct 26 through Nov 1, 1995

Plotted, staked, roped off, and cleared landfill 2 area with magnetometers.

Nov 2 through Nov 5, 1995

These were non-work days

Nov 6 through Nov 8, 1995

Escorted sampling teams to sampling sites. Ordered Level "B" PPE equipment.

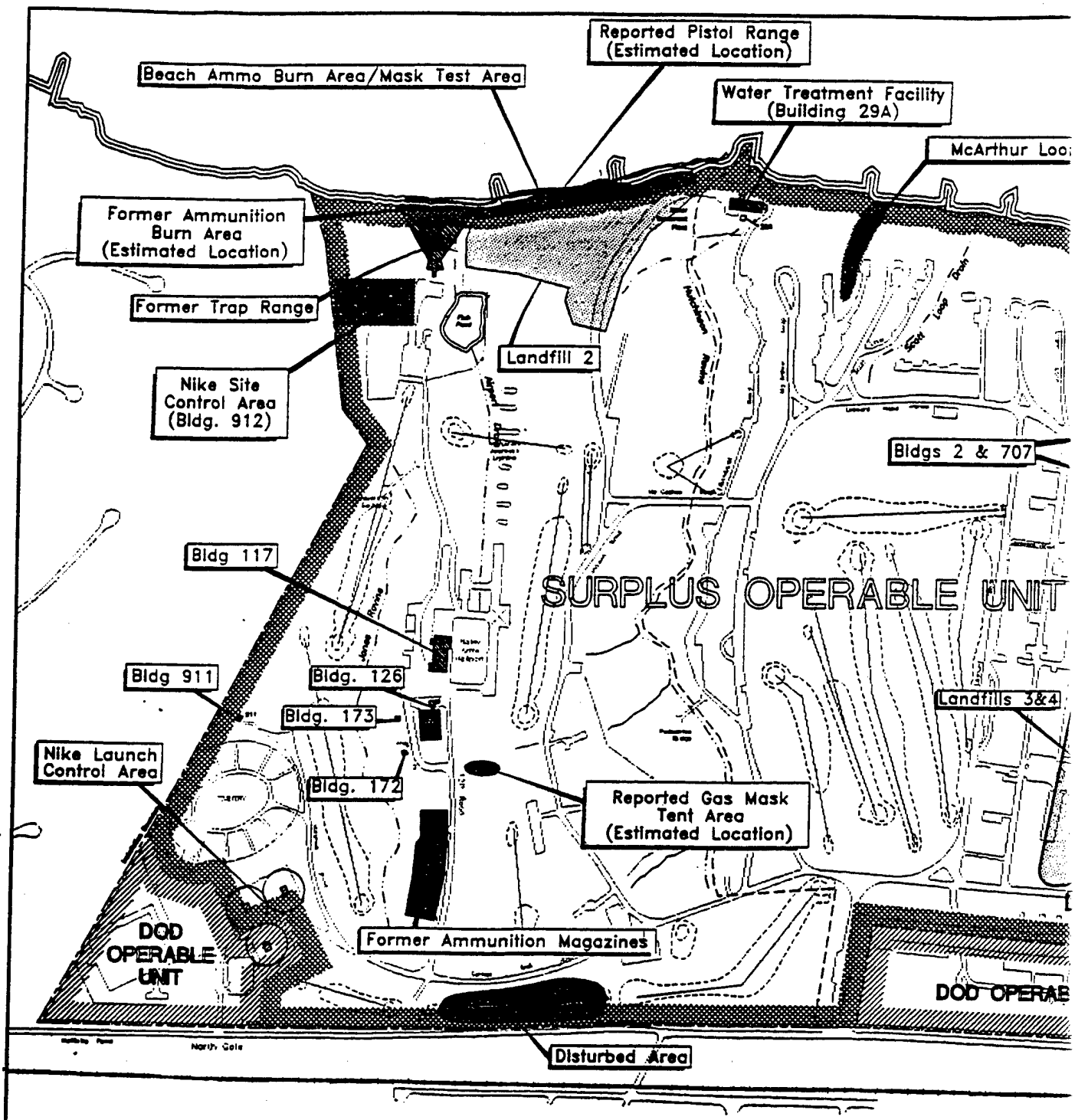
Nov 9 through Nov 12, 1995

Conducted trenching and down hole operations at landfill 2 sites. All work performed in PPE Level "B." Mr. Bill Whitten was added to crew to operate Level "B" air supply and equipment

Nov 13 through 15 Nov 1995

Escorted sampling teams at Beach Ammo Burn Area.

Conclusion: No ordnance or explosive waste was located. All events occurred without incident or accident. Strict enforcement of the work plan was maintained at all times.



Environmental Science & Engineering, Inc.

DVL 01/05/95 490-2087
Revised JCF 10/11/95 FS2FHSP

Adapted from Official Post Map, Directorate of Engineering and Housing, Fort Sheridan, Illinois, January 6,

1

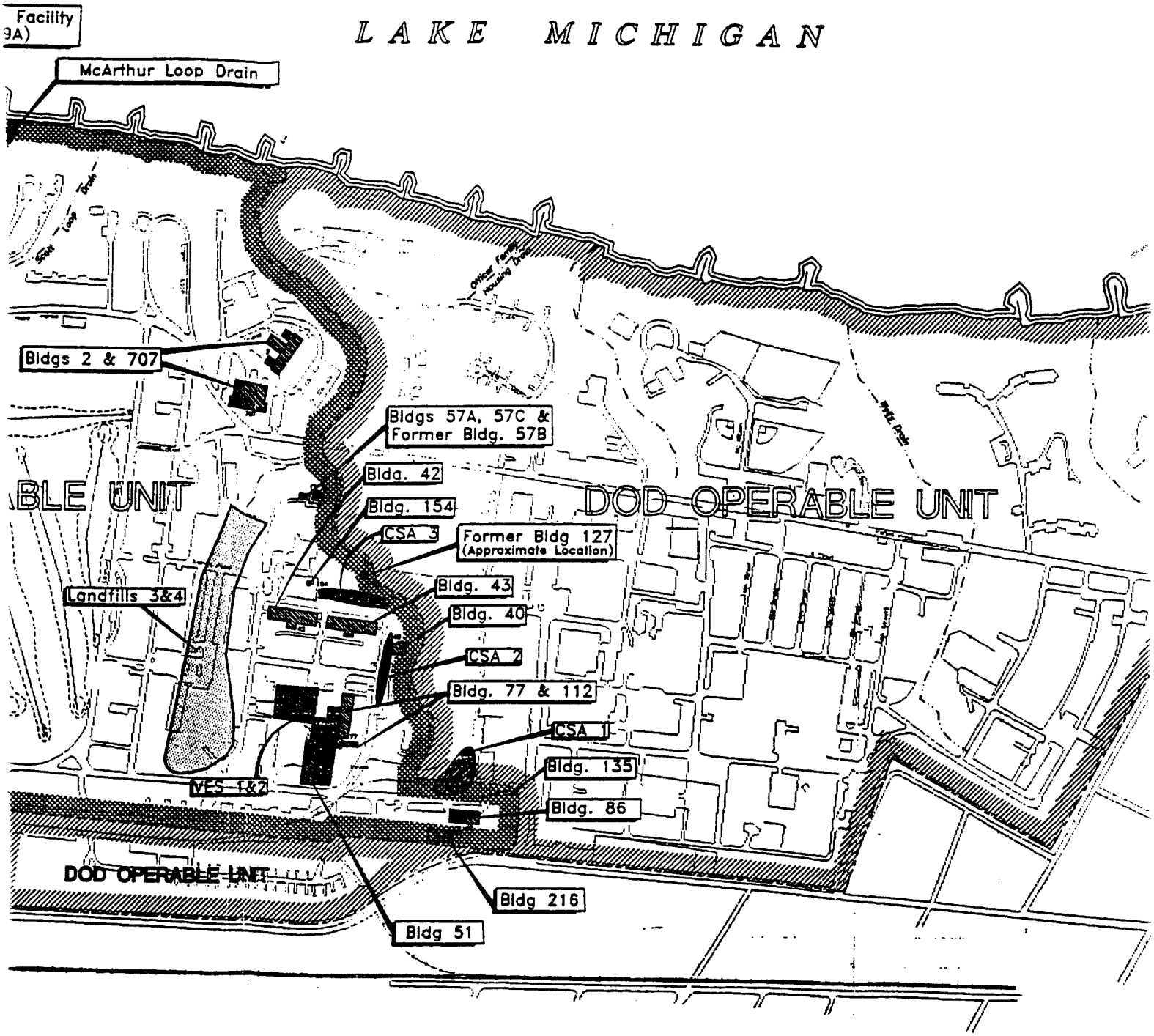


Figure 2-1

Surplus Operab
Study Area Lo

Final Health and S

Fort Sheridan, Illinois

heridan, Illinois, January 6, 1989

N

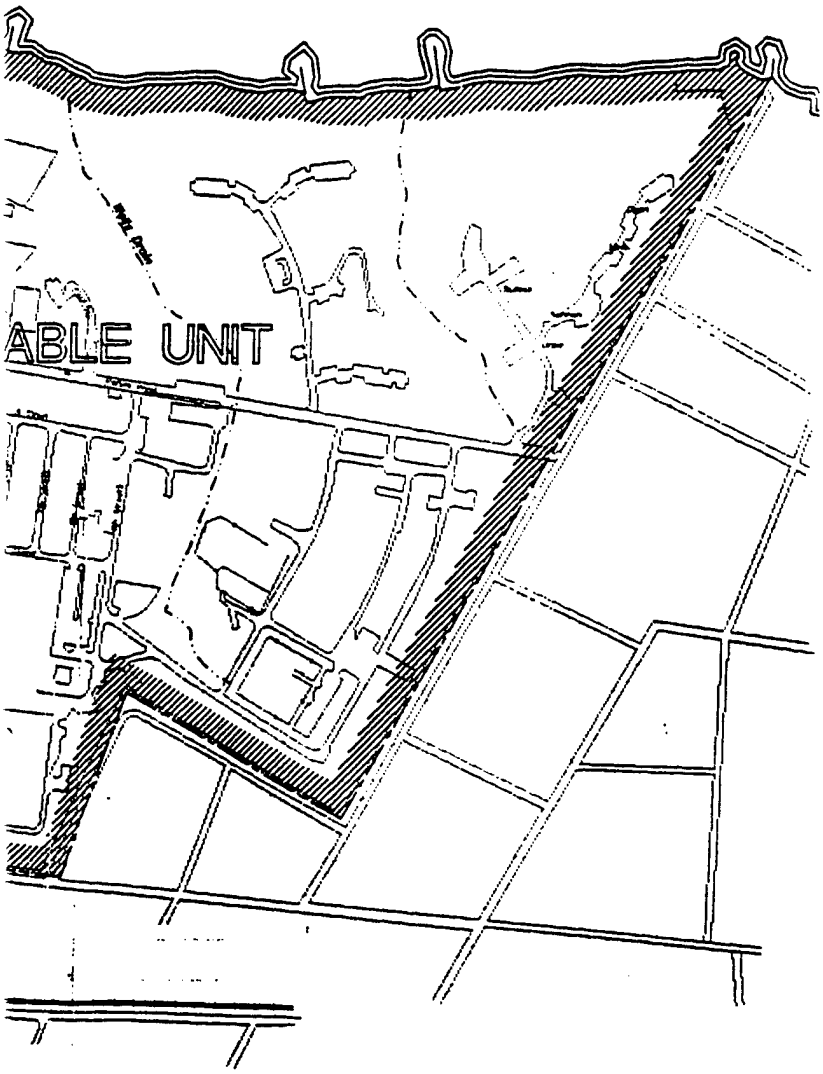


Figure 2-1

Surplus Operable Unit Study Area Locations

Final Health and Safety Plan

Fort Sheridan, Illinois

3

Appendix G

Field Photography Log Sheets

Project: Fort Sheridan
Location: B77SB01
Date: November 8, 1995

Weather Conditions:
Sunny, cold

Description:
Building 77, Soil Boring 1: Illustrates collection of surface soil sample.

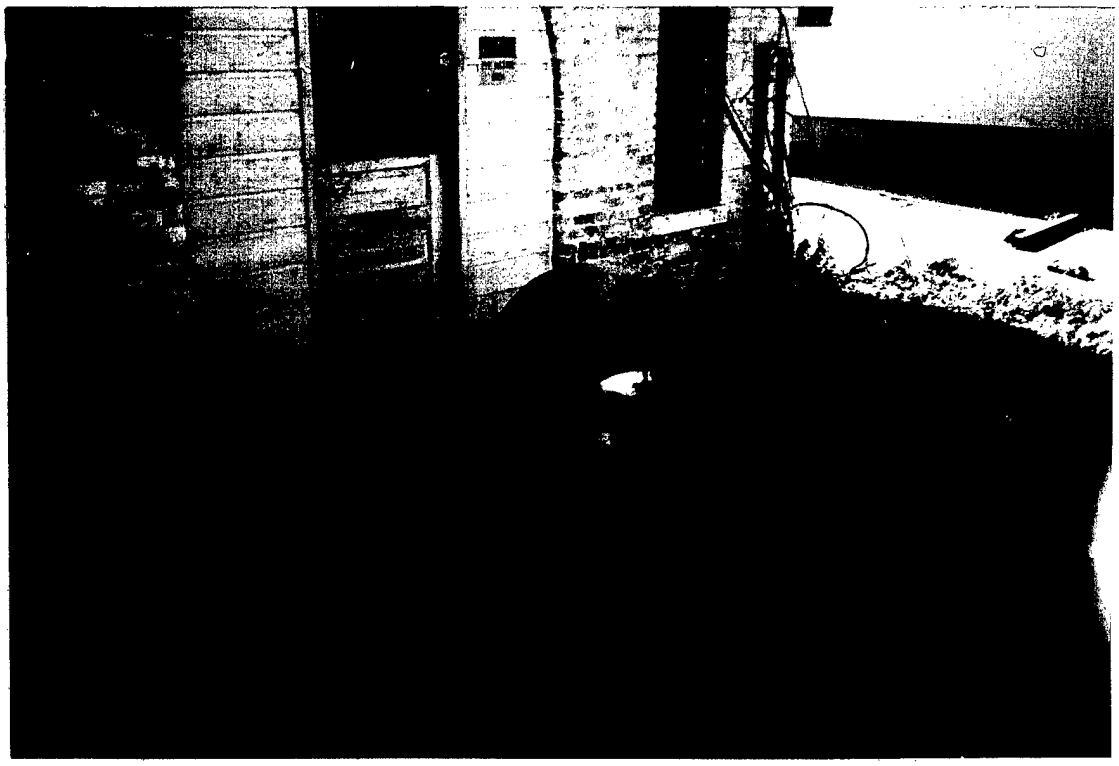


Photo 1

Location: SARNSB04
Date: November 12, 1995

Weather Conditions:
Cloudy, cold

Description:
Small Arms Range North, Soil Boring 4: Illustrates collection of surface soil sample under UXO oversite.



Photo 2

Project: Fort Sheridan
Location: FTRSS01
Date: November 9, 1995

Weather Conditions:
Cloudy, cold

Description:
Former Trap Range, Surface Soil 1: Illustrates collection of surface soil sample under UXO supervision.

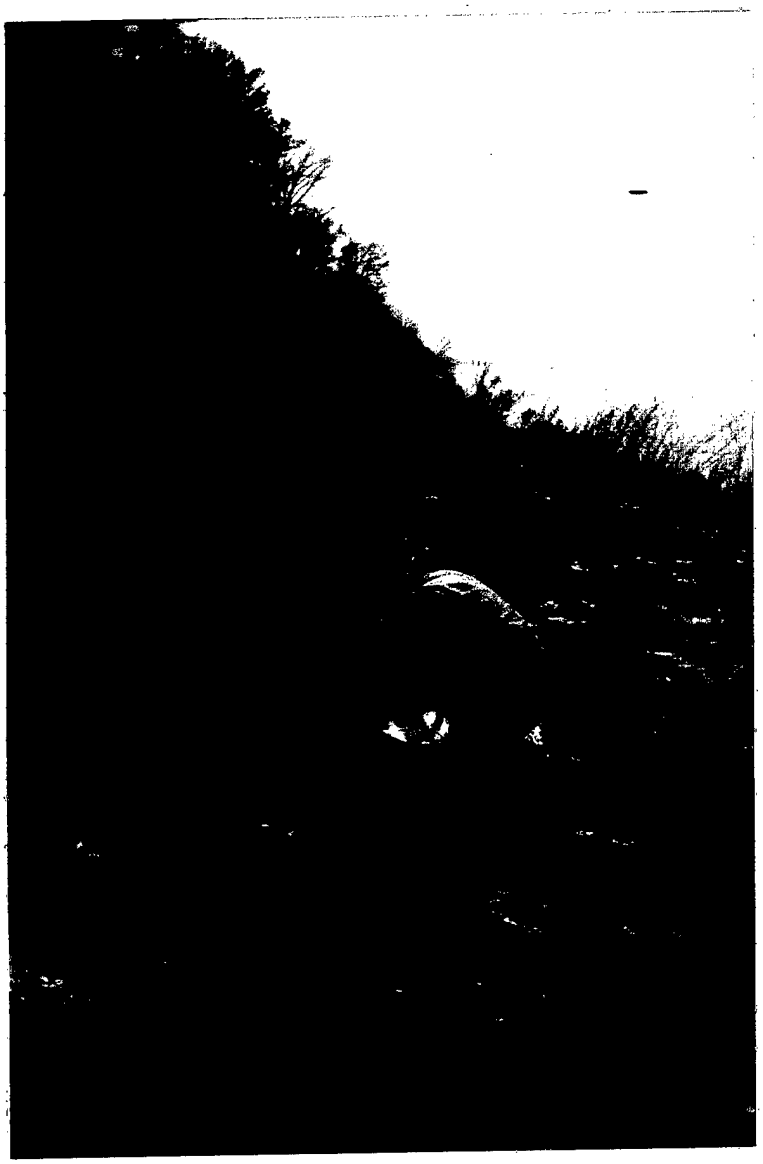


Photo 3

Location: B117SW06
Date: October 30, 1995

Weather Conditions:
Cloudy, cool

Description:
Building 117, Surface Water 6: Illustrates collection of surface water from manhole.



Photo 4

Project: Fort Sheridan
Location: MLDSD01
Date: October 26, 1995

Weather Conditions:
Cloudy, cold

Description:
MacArthur Loop Drain, Surface Sediment 1: Illustrates collection of surface sediment sample.



Photo 5

Location: LF3SW02
Date: October 26, 1995

Weather Conditions:
Cloudy, cool

Description:
Landfill 3, Surface Water 2: Illustrates collection of surface water from a manhole.



Photo 6

Project: Fort Sheridan
Location: LF4TP07
Date: September 12, 1996

Weather Conditions:
Sunny, cool

Description:
Test Pit 7 in Landfill 4: can see roots in soil and soil fabric indicating native material.



Photo 7

Location: LF3TP05
Date: September 10, 1996

Weather Conditions:
Cloudy, warm

Description:
Landfill 3, Test Pit 5: Illustrates the methodology of trenching. Facing north - observe fill/native soil interface in north end of pit.



Photo 8

Project: Fort Sheridan
Location: LF4TP05
Date: October 9, 1996

Weather Conditions:
Sunny, warm

Description:
Landfill 4, Test Pit 5:
Illustrates waste material (building rubble) encountered during trenching activities.

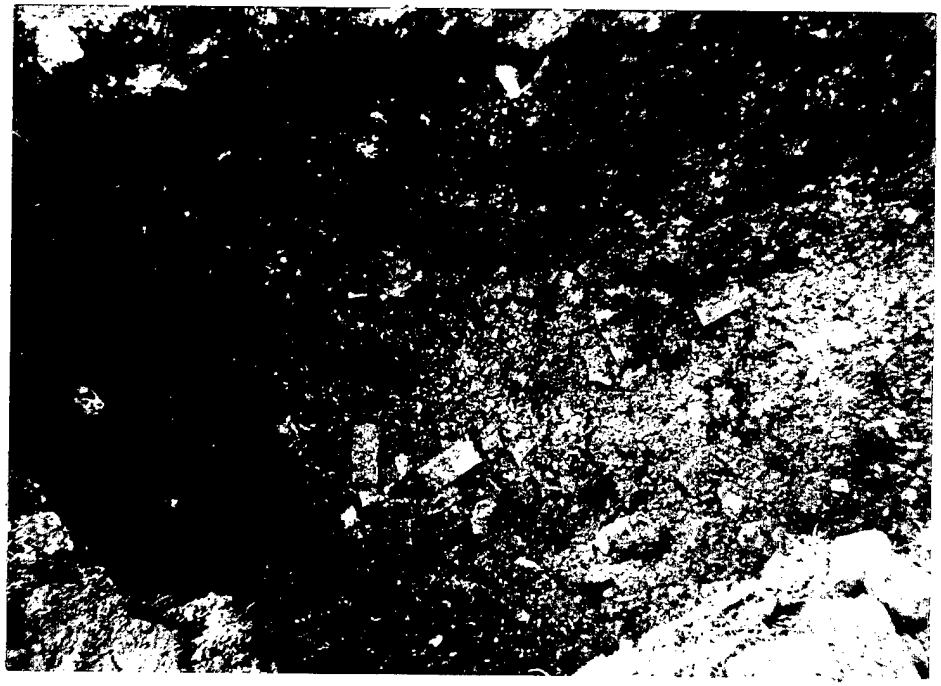


Photo 9

Location: LF4TP06
Date: October 12, 1996

Weather Conditions:
Sunny, cool

Description:
Landfill 4, Test Pit 6:
Illustrates earthen (brown) fill above native soil horizon - roots, dark brown.

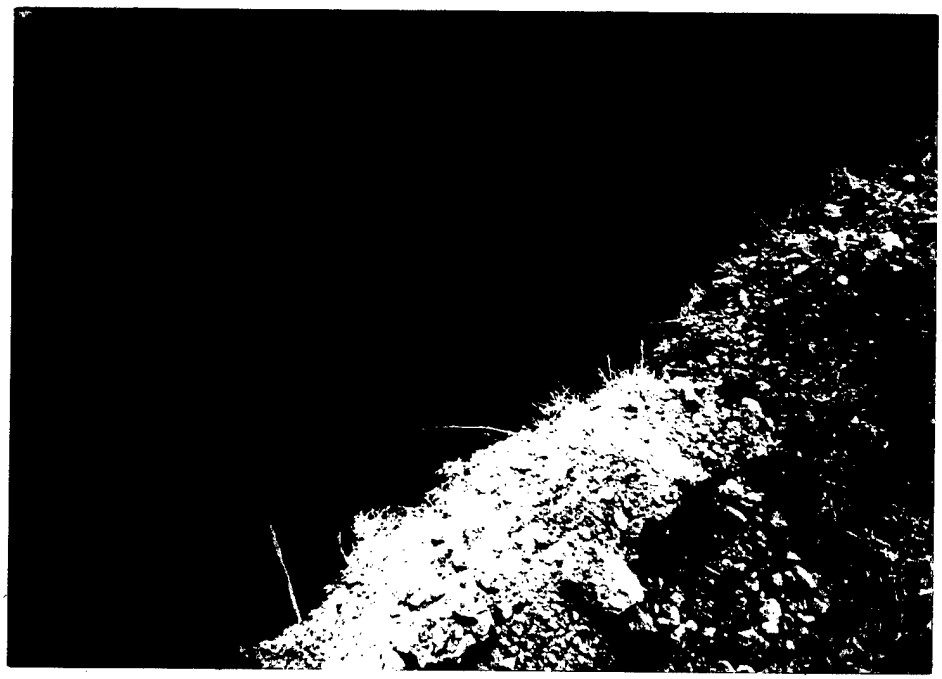


Photo 10

Project: Fort Sheridan
Location: LF3TP04
Date: September 11, 1996

Weather Conditions:
Sunny, cool

Description:
Landfill 3, Test Pit 4:
Illustrates waste material encountered during trenching activities.

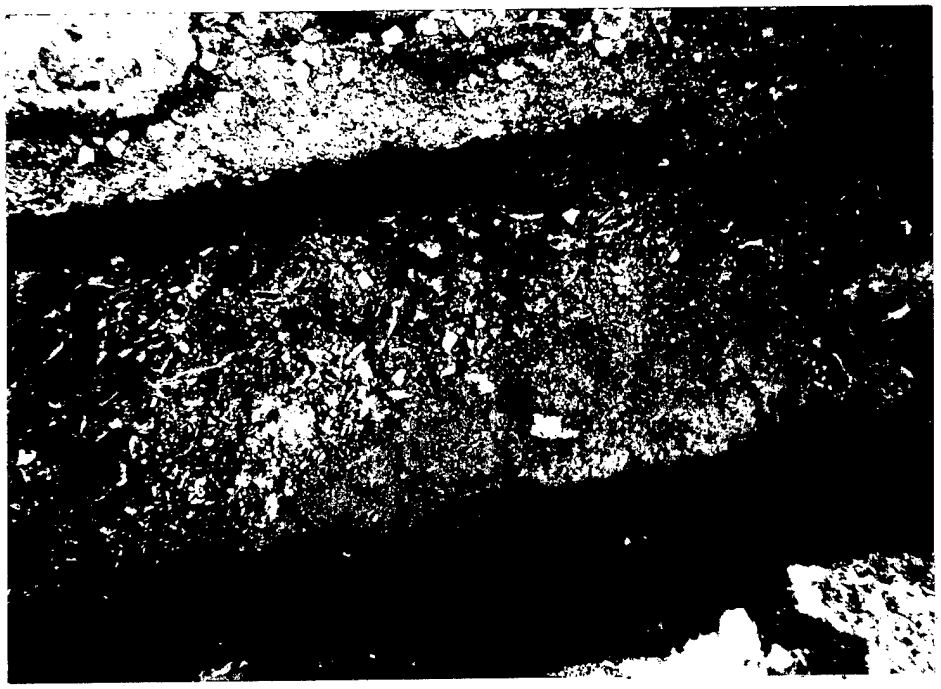


Photo 11

Location: LF4TP08
Date: October 9, 1995

Weather Conditions:
Sunny, warm

Description:
Landfill 4, Test Pit 8:
Illustrates contact between native and fill material.

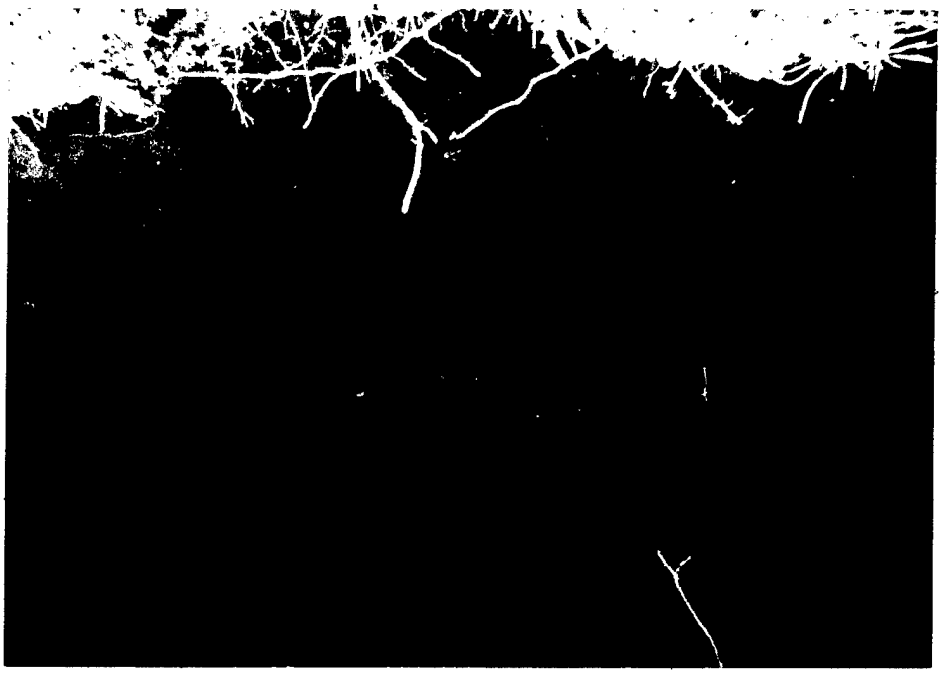


Photo 12

Project: Fort Sheridan
Location: LF3SB07
Date: October 30, 1996

Weather Conditions:
Cloudy, cool

Description:
Landfill 3, Soil Boring 7: Illustrates monitoring of air in breathing zone during hollow stem auger drilling activities.

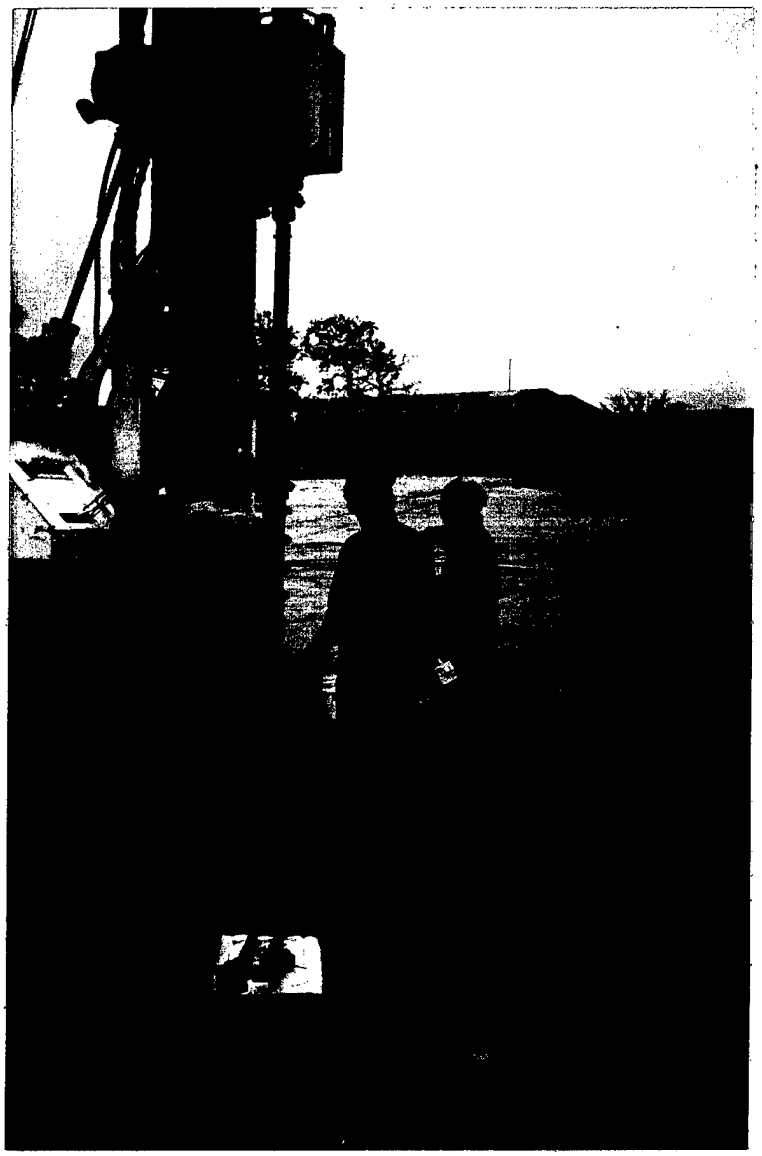


Photo 13

Location: LF3SB17
Date: September 18, 1996

Weather Conditions:
Sunny, cool

Description:
Landfill 3, Soil Boring 17: Illustrates fill material encountered during drilling activities (sand, clay & gravel) earthen fill and decomposed refuse.



Photo 14

Project: Fort Sheridan
Location: B216SB03
Date: October 29, 1995

Weather Conditions:
Sunny, cool

Description:
Building 216, Soil Boring 3: Illustrates method of soil collection (i.e., inside plastic Laskey Sample liner, capped with bentonite and duct taped.)

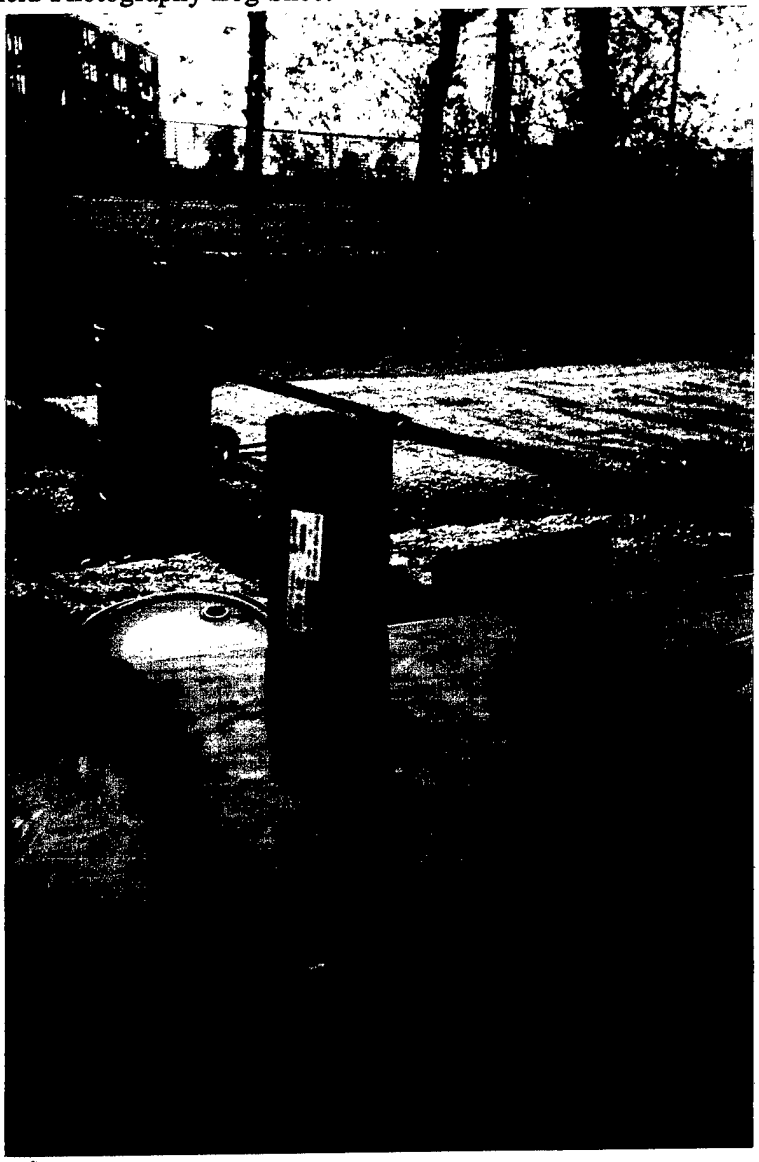


Photo 15

Location: NMBMW01
Date: October 26, 1995

Weather Conditions:
Sunny, cool

Description:
Nike Missile Battery, Monitoring Well 1: Illustrates method of grouting (i.e., tremmie pipe).



Photo 16

Project: Fort Sheridan
Location: NMBMW01
Date: October 26, 1995

Weather Conditions:
Sunny, cool

Description:
Nike Missile Battery, Monitoring Well 1: Illustrates decon of PVC casing and screen before installation.



Photo 17

Location: LF3SB12/TMW-1
Date: September 16, 1996

Weather Conditions:
Partly cloudy, cool

Description:
Landfill 3, Soil Boring 12/ Temp. Monitoring Well 1: Illustrates installation of temporary monitoring well.



Photo 18

Project: Fort Sheridan
Location: LF3SB12/TMW-1
Date: September 16, 1996

Weather Conditions:
Partly cloudy, cool

Description:
Landfill 3, Soil Boring 12/ Temp. Monitoring Well 1: Illustrates installation of temporary monitoring well-placement of filter pack.

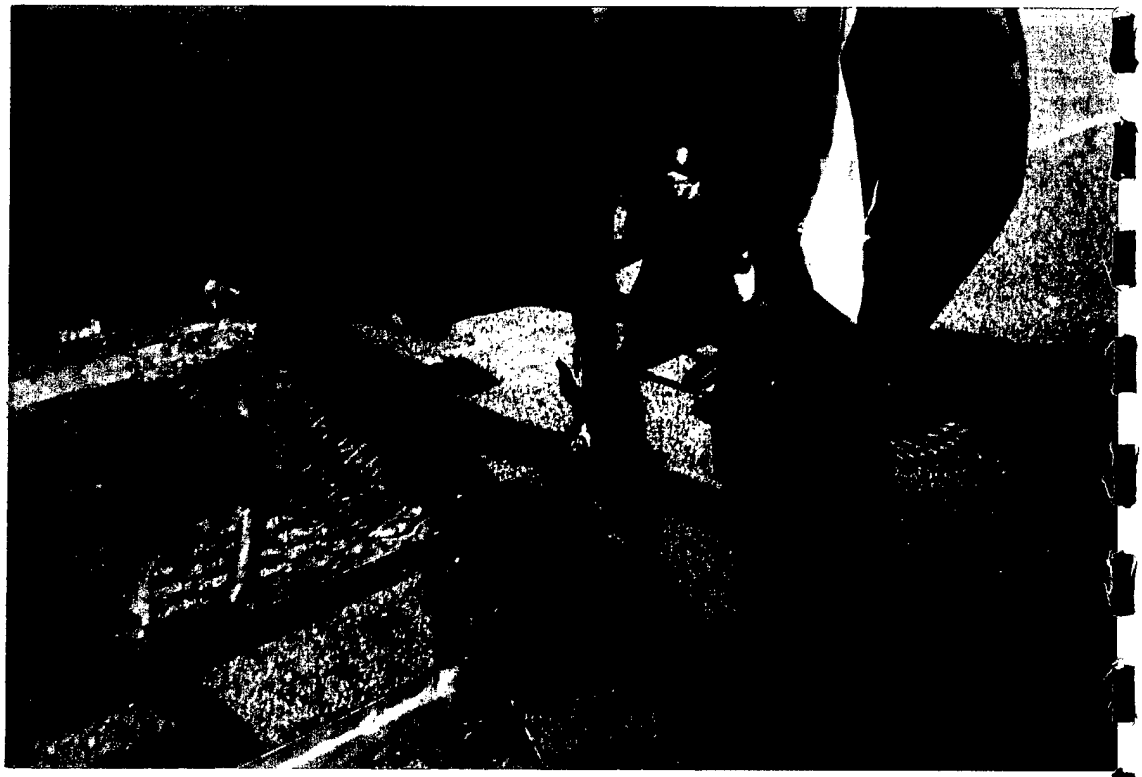


Photo 19

Location: LF2MW10
Date: November 7, 1995

Weather Conditions:
Cloudy, cool

Description:
Landfill 2, Monitoring Well 10: Illustrates decon procedure in contamination reduction zone.

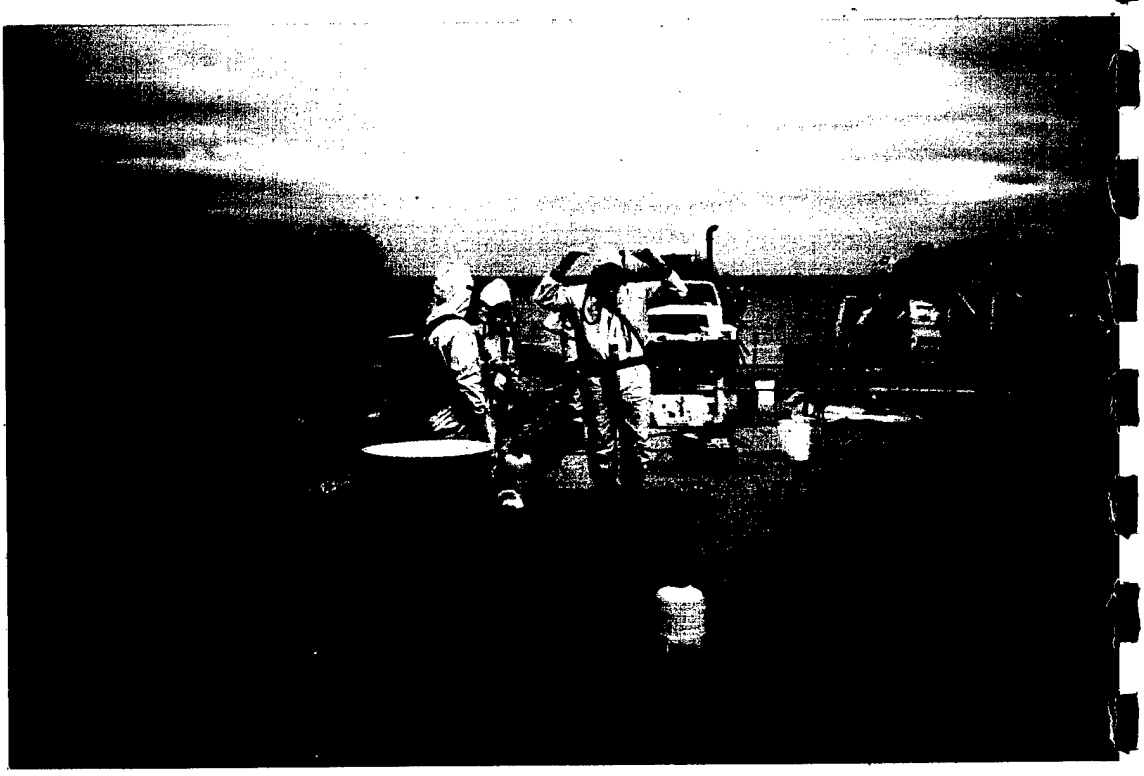


Photo 20

Project: Fort Sheridan
Location: LF2MW10
Date: November 7, 1995

Weather Conditions:
Partly cloudy, cool

Description:
Landfill 2, Monitoring Well 10: Illustrates decon area setup on left/suiting up in Level B PPE for landfill drilling.

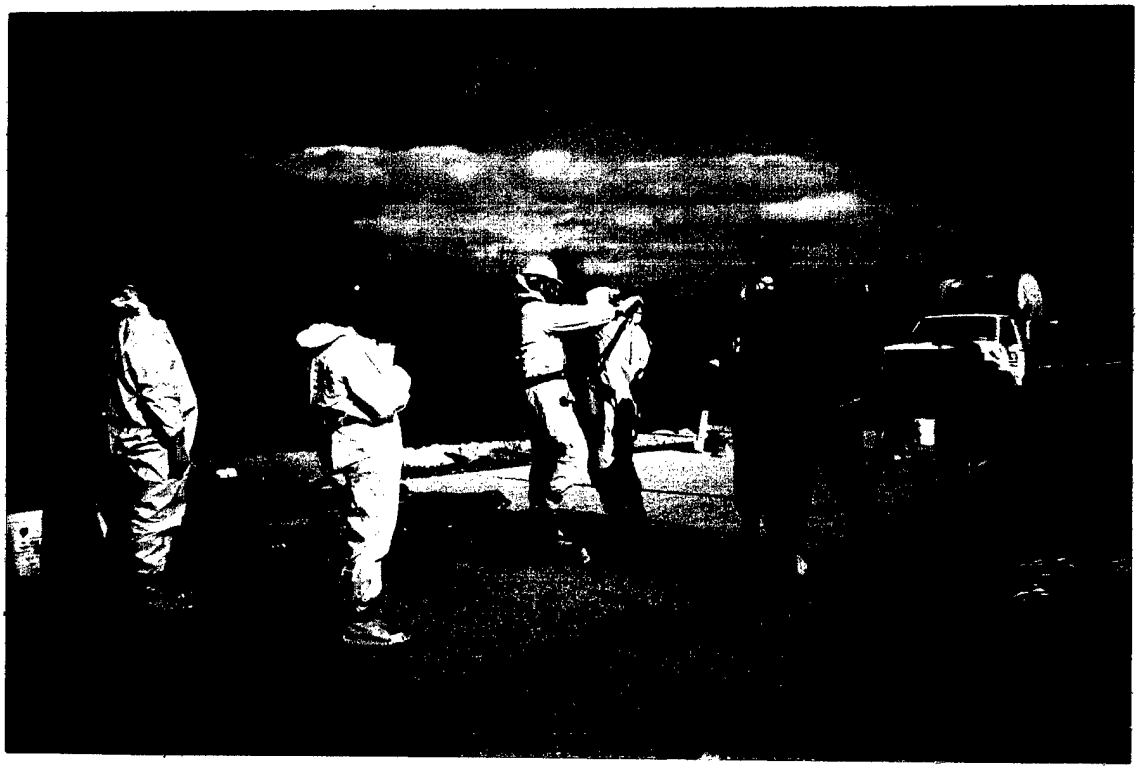


Photo 21

Appendix H

Toxicity Testing Report

Chronic Toxicity of Sediments from the Surplus OU to the Freshwater Invertebrate, *Hyalella azteca*

FINAL REPORT:

CHRONIC TOXICITY OF SEDIMENTS FROM THE SURPLUS OPERABLE UNIT, FORT SHERIDAN, ILLINOIS, TO THE FRESHWATER INVERTEBRATE, *HYALELLA AZTECA*

TEST GUIDELINE:

ASTM E1383-94

PREPARED FOR:

U.S. Army Environmental Center
Base Closure Division
Aberdeen Proving Ground, Maryland 21010-5401

PERFORMING LABORATORY:

Environmental Science & Engineering, Inc. (ESE)
14220 West Newberry Road
Gainesville, Florida 32607
Phone: (352) 332-3318
Fax: (352) 333-6622

STUDY ID:

ESE Project No. 4902087-0630-3100

December 1996

EXECUTIVE SUMMARY

Whole sediment toxicity tests were conducted at Environmental Science & Engineering, Inc. (ESE), in Gainesville, Florida, with the freshwater invertebrate, *Hyalella azteca*, on samples collected from the Surplus Operable Unit, Fort Sheridan, Illinois. The effect criteria for the tests were survival and growth. A total of 10 site sediments, 3 background sediments and one laboratory control sediment, were used in the toxicity tests. After 28 days of exposure, there were no significant differences ($P \leq 0.05$) in the survival of *Hyalella azteca* between the laboratory control sediment and any of the 3 background sediments. Also, there were no significant differences ($P \leq 0.05$) in the survival of *Hyalella azteca* between the 3 background sediments and any of the site sediments. Growth, as dry weight and length, of *Hyalella azteca* in the background sediments was not significantly different ($P \leq 0.05$) from growth in any of the site or laboratory control sediments.

TABLE OF CONTENTS

Section		Page
EXECUTIVE SUMMARY		2
TABLE OF CONTENTS		3
LIST OF TABLES		4
LIST OF APPENDICES		4
1.0	**INTRODUCTION**	5
2.0	**MATERIALS AND METHODS**	5
2.1	TEST SAMPLES	
2.2	DILUTION WATER	
2.3	TEST ORGANISMS	
2.4	TEST DESIGN	
2.5	REFERENCE TOXICANT TEST	
2.6	CHEMICAL ANALYSES	
3.0	**STATISTICAL ANALYSIS**	8
4.0	**RESULTS AND DISCUSSION**	9
4.1	CHRONIC TOXICITY TEST	
4.2	REFERENCE TOXICANT TEST	
5.0	**CONCLUSION**	10
6.0	**REFERENCES**	11

LIST OF TABLES

Page

Table 1 Water Quality Measurement Ranges of Overlying Water During a 28-Day Chronic Toxicity Test Using Whole Sediment From The Surplus Operable Unit, Fort Sheridan, Illinois, With *Hyalella azteca* 12

Table 2 Survival and Growth of *Hyalella azteca* Exposed to Whole Sediments From The Surplus Operable Unit, Fort Sheridan, Illinois, During a 28-Day Chronic Toxicity Test 13

LIST OF APPENDICES

Appendix A: Chain-of-Custody and Traffic Information

Appendix B: *Hyalella azteca* Sediment Toxicity Test Raw Data

Appendix C: Reference Toxicant Test Raw Data

1.0 INTRODUCTION

Whole sediment toxicity tests were conducted at Environmental Science & Engineering, Inc. (ESE) on sediment samples collected from the Surplus Operable Unit, Fort Sheridan, Illinois, to determine the chronic toxicity of the test samples. The test organism used for sediment toxicity tests was the freshwater invertebrate, *Hyalella azteca*. The effect criteria for the chronic tests were survival and growth (measured as length and weight).

The tests were conducted following ASTM Guideline E 1383-94 entitled: *Standard Guide for Conducting Sediment Toxicity Tests with Freshwater Invertebrates* (ASTM, 1995) and ESE in-house protocols. All of the original raw data pertaining to this study are maintained at ESE, 14220 West Newberry Road, Gainesville, Florida.

2.0 MATERIALS AND METHODS

2.1 TEST SAMPLES

Test sediments were collected from the Surplus Operable Unit, Fort Sheridan, Illinois by ESE personnel from September 10 through 13, 1996, and were received on ice at the ESE Gainesville laboratory from September 11 through 14, 1996. The test samples, identified as JRBSD01, JRBSD02, JRBSD03, JRBSD04 (background), JRBSD05 (background), HRBSD01, HRBSD02, HRBSD03, HRBSD04, HRBSD05, BRBSD01, BRBSD02, and SRBSD01 (background) were received in quantities of approximately 2 kilograms each. Upon receipt, the coolers were opened and the contents checked against the chain-of-custody sheets to ensure that all the recorded samples were present. The temperature of the coolers was then measured using the temperature blanks provided in the coolers. Any observations during the sample receipt and log-in operations were recorded in the sample receipt logbook. The laboratory control sediment used for the whole sediment bioassays was collected by ESE personnel from Marineland, Florida. The site from which the laboratory control sediment was collected has been proven to be uncontaminated in previous tests. Chain-of-custody and traffic information for the samples are presented in Appendix A. All sediment samples were stored in a refrigerator at 4 $\pm$ 2 °C during the testing period.

2.2 DILUTION WATER

The water used as dilution or overlying water was hard reconstituted freshwater with a hardness of approximately 146 mg/L as $CaCO_3$. The water was obtained from a deep well located at the test site and was diluted with deionized water to achieve the desired hardness.

2.3 TEST ORGANISMS

The tests were conducted using juvenile (second or third instar, 2-3 mm long) *H. azteca* obtained from Chesapeake Cultures, Hayes, VA. The supplier's breeding and holding conditions, such as temperature and water hardness, were similar to those of the testing conditions. Therefore, organisms were held <24 hours prior to test initiation. Test organisms were acclimated to any differences in water chemistry by diluting the receiving water with test dilution water to 50 percent of receiving water. All *H. azteca* used in the tests appeared to be normal and healthy at test initiation.

2.4 TEST DESIGN

Prior to use in testing, the sediment samples were thoroughly homogenized in their original containers and in a glass sorting pan, and then hand-sorted to remove large stones, small sticks, and indigenous organisms. Any observations made were recorded on a daily log sheet. The test vessels used for the bioassays were 2 L glass jars (23 cm height and 13 cm diameter). Approximately 200 grams of test or control sediment were introduced into the test chambers and uniformly leveled. Eight-hundred milliliters (800 mL) of overlying water were added to each test chamber to provide a ratio of 1 part sediment to 4 parts overlying water. The test chambers were then allowed to settle overnight with aeration provided at a rate of approximately 80 bubbles per minute. After the initial water quality measurements were taken, the test organisms were indiscriminately added to the individual test chambers, loading only one replicate at a time until loading was complete. The whole sediment tests were conducted using four replicates of twenty organisms per replicate for a total of 80 *H. azteca* per sample. The test vessels were labelled with the site sample number and the replicate number (A through D), and the test area was identified by the project manager, project number, test type and schedule.

The duration of the static-renewal test was 28 days during which the overlying water in each replicate exposure chamber was renewed two-to-three times a week. During renewals, approximately 75 percent of the overlying water was siphoned through a 0.1 mm mesh sieve. Any test organisms trapped in the sieve were pipetted back into the appropriate test chamber. New overlying water was then slowly siphoned back into the test chamber while diverting the flow onto the side of the test chamber to minimize resuspension of the sediments. *Hyalella azteca* were fed 0.1 g of an aged, ground rabbit chow (Jonesville Feed Seed Store, Newberry, Florida), supplemented with algae, yeast/trout chow/cereal leaves mixture (Aquatic Biosystems, Fort Collins, Colorado) and Tetramin (That Fish Place, Lancaster, Pennsylvania) following renewals of overlying water. The feeding schedules were suspended temporarily and the test vessels cleaned if excess food was observed on the surface of the sediment. After cleaning the test chambers of excess food and assessing water quality, feedings were resumed.

The tests were conducted in a waterbath adjusted to maintain a temperature of 20 ± 2 °C under fluorescent lighting with a daily photoperiod of 16 hours of light (800 to 960 Lux) and 8 hours of darkness. All test chambers were aerated at a rate of approximately 80 bubbles per minute throughout the duration of the test. Temperature, pH, and dissolved oxygen concentrations (DO) were measured daily. On renewal days, water quality parameters (temperature, pH, DO, and conductivity) were measured prior to and immediately following renewal of overlying water. Water quality measurements were taken with the following instruments: temperature--Fisher Scientific digital thermocouple; pH--SA 290A Orion pH meter with an Orion 91-57 triode; dissolved oxygen--YSI, Model 57 DO meter and Corning Checkmate 90; and conductivity--YSI, Model 33 SCT conductivity meter. All instruments used to perform the water quality measurements were calibrated daily during the testing period.

The test chambers were observed daily for organism entrapment at the surface of the overlying water, sediment avoidance, reproductive behavior, and organism emergence. At test termination, the overlying water was swirled to resuspend the top few centimeters of sediment, and then poured onto a 0.5 mm Nytex screen to collect and enumerate the surviving test organisms. If all organisms were not immediately found, the remaining sediment was poured onto a 0.50 mm Nytex screen

sieve and observed in a glass tray over fluorescent lighting. Individual body lengths of surviving *H. azteca* were then measured in millimeters with the aid of a Nikon dissecting microscope equipped with a Leica micrometer to determine growth. After the individual lengths had been measured, growth (as group dry weight in milligrams) was measured for each replicate by placing the organisms in pre-weighed, dried aluminum pans and drying the organisms in a Blue-M oven at 60 °C for 24 hours. After 24 hours, the aluminum pans were removed from the oven and placed in a desiccator to cool. The weights of the cooled pans were measured on an Scientific Products S/P 180 analytical balance and the group dry weights of the replicates were determined by difference.

2.5 REFERENCE TOXICANT TEST

A ninety-six-hour reference toxicant test, using cadmium chloride ($CdCl_2$) as the reference toxicant, was performed concurrently with the chronic toxicity test to determine the sensitivity of the test organisms. Concentrations of $CdCl_2$ selected for the test were 0 (control), 8, 16, 32, 64 and 128 μg $CdCl_2$/L. The reference toxicant test was performed under the same conditions as the chronic toxicity tests.

2.6 CHEMICAL ANALYSES

Chemical analyses of the test sediments were performed to determine the concentrations of constituents of interest. Analyses were performed using the following EPA methods: percent lipids (9071); metals (6010 and 6020); explosives (8330); pesticides (8080); PCBs (8080); and semivolatiles (8270). The results of the chemical analyses are presented in the Phase III RI report for Fort Sheridan.

3.0 STATISTICAL ANALYSIS

Mean survival and growth data were evaluated by a statistical comparison of the site samples with the laboratory control sample using appropriate statistical procedures. Analysis of variance followed by the Duncan's Multiple Range Test (Snedecor and Cochran, 1980) and Dunnett's t-test (EPA/600/4-89/001) were used to determine statistical significance. Data were first checked for normality and homogeneity of variance using Shapiro-Wilk's and Bartlett's tests, respectively. If either of these assumptions were not met, data was transformed using a square-root arcsine

transformation and checked again for normality and homogeneity of variance prior to statistical analysis. The median lethal concentration (LC_{50}), the concentration of reference toxicant lethal to 50 percent of the test population under the specified conditions of exposure, was calculated using the Trimmed Spearman-Karber Statistical Computer Program (Hamilton et. al., 1977).

4.0 RESULTS AND DISCUSSION

4.1 CHRONIC TOXICITY TEST

Debris, including stones and plant material, was removed from some of the sediment samples prior to use in testing. No indigenous organisms were found in any of the sediments during the sorting process. Test conditions, including lighting, conductivity, dissolved oxygen, temperature, and pH values remained at acceptable levels throughout the testing period. Results of the exposure water quality parameter measurements are presented in Table 1. Test temperature ranged from 18.6 to 21.1 °C, pH ranged from 7.5 to 8.4 standard units, DO ranged from 7.8 to 9.0 mg/L and solution conductivities ranged from 240 to 570 μmhos/cm for all exposures throughout the duration of the test (Table 1). Light intensity over the test area averaged 873 Lux with a range of 800 to 960 Lux. The relevant raw data pertaining to this test are provided in Appendix B.

Survival and growth data for *H. azteca* after the 28-day chronic exposure period are presented in Table 2. After 28 days of exposure, survival of *H. azteca* in the site and background samples ranged from 88 percent (HRBSD04) to 100 percent (HRBSD01 and HRBSD05). Control survival was 94 percent, which is within acceptable limits for this test. Survival of *H. azteca* in the laboratory control sediment was not significantly different ($P \leq 0.05$) from survival in any of the site or background sediments. Also, survival of *H. azteca* in the background sediments was not significantly different ($P \leq 0.05$) from survival in any of the site sediments (Table 2). Growth as weight of *H. azteca*, ranged from 0.34 mg/organism (control) to 0.54 mg/organism (HRBSD03) and growth as length ranged from 3.8 mm per organism (control) to 4.2 mm per organism (HRBSD03). Growth, as dry weight and length, of *H. azteca* in the laboratory control sediment was also not significantly different ($P \leq 0.05$) from growth in any of the site or background

sediments. Growth, as dry weight and length, of *H. azteca* in the background sediment was not significantly different ($P \leq 0.05$) from growth in any of the site sediments (Table 2).

Behavioral observations recorded included organism emergence from the sediments and at the surface of the overlying water, and amplexus (reproductive behavior of *H. azteca* noted at test termination). Young production of *H. azteca* was observed in replicate C of the laboratory control and in at least one replicate of the following sediment exposures: JRBSD01, JRBSD02, JRBSD05, and HRBSD01.

4.2 REFERENCE TOXICANT TEST

Raw data pertaining to the reference toxicant test are provided in Appendix C. The 96-hour LC_{50} for the *H. azteca* reference toxicant test was calculated to be 29.86 μg $CdCl_2$/L with 95 percent confidence limits of 23.48 to 37.96 μg/L. The LC_{50} falls within the normal sensitivity ranges of the test organisms used at ESE. The reference toxicant test raw data and statistical reports are provided in Appendix C.

5.0 CONCLUSION

Under the conditions of the study, there were no significant differences ($P \leq 0.05$) in survival of *H. azteca* between the laboratory control sediment and any of the site sediments or background samples collected from the Surplus Operable Unit, Fort Sheridan, Illinois. There were no significant differences ($P \leq 0.05$) in growth, measured as dry weight and length, of *H. azteca* between the laboratory control sediment and any of the site sediments or background samples.

6.0 REFERENCES

American Society for Testing and Materials. ASTM E 1383-94. *Standard Guide for Conducting Sediment Toxicity Tests with Freshwater Invertebrates*. 1995.

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Snedecor, G.W. and W.G. Cochran, 1980. Statistical Methods. 7th Edition. The Iowa State University Press, Ames, Iowa.

U.S. Environmental Protection Agency (EPA). 1988. *Computer Program and Users Guide for Probit and Dunnett's Analysis of Data from Acute and Short Term Chronic Toxicity Tests with Aquatic Organisms*. Prepared by Statistical Support Staff, Computer Sciences Corporation. Prepared for the Biological Methods Branch, Environmental Monitoring and Support Laboratory, Cincinnati, OH, 1988.

Table 1. Water Quality Measurement Ranges[a] of Overlying Water During a 28-Day Chronic Toxicity Test Using Whole Sediment From The Surplus Operable Unit, Fort Sheridan, Illinois With *Hyalella azteca*

Sample ID	Temp (°C)	pH (s.u.)[b]	DO (mg/L)	Cond[c]. (μmhos/cm)
CONTROL	18.9 - 21.1	7.5 - 8.2	7.8 - 9.0	240 - 295
JRBSD01	18.7 - 21.0	7.5 - 8.3	8.3 - 9.0	250 - 340
JRBSD02	18.6 - 21.0	7.6 - 8.3	8.0 - 9.0	260 - 340
JRBSD03	18.7 - 21.0	7.6 - 8.3	8.0 - 9.0	250 - 320
JRBSD04[d]	18.6 - 21.0	7.7 - 8.4	8.0 - 9.0	255 - 360
JRBSD05[d]	18.9 - 21.0	7.7 - 8.4	8.0 - 9.0	250 - 330
HRBSD01	18.9 - 21.0	7.7 - 8.4	7.9 - 9.0	250 - 340
HRBSD02	18.9 - 21.0	7.7 - 8.4	7.9 - 9.0	260 - 360
HRBSD03	18.8 - 21.0	7.6 - 8.3	8.0 - 9.0	275 - 395
HRBSD04	18.9 - 21.1	7.6 - 8.3	7.8 - 9.0	260 - 400
HRBSD05	19.1 - 21.0	7.7 - 8.3	8.0 - 9.0	260 - 395
BRBSD01	18.8 - 21.0	7.6 - 8.4	8.0 - 9.0	280 - 395
BRBSD02	18.8 - 21.1	7.6 - 8.4	7.8 - 9.0	245 - 350
SRBSD01[d]	18.8 - 21.0	7.6 - 8.3	8.0 - 9.0	265 - 570

[a] Range of 40 measurements
[b] pH measured in standard units (s.u.)
[c] Conductivity
[d] Background sample

Table 2. Survival and Growth of *Hyalella azteca* Exposed to Whole Sediments From The Surplus Operable Unit, Fort Sheridan, Illinois During a 28-Day Chronic Toxicity Test (Page 1 of 2)

Sample ID	Replicate[a]	No. Alive (% Survival)	Growth as Length (mm)	Growth as Dry Weight (mg)
CONTROL	A	18	3.7	0.34
	B	19	3.8	0.33
	C	19	4.1	0.37
	D	19	3.7	0.32
		75 (94%)	3.8	0.34
JRBSD01	A	20	3.9	0.50
	B	20	3.9	0.45
	C	19	4.0	0.52
	D	20	4.0	0.56
		79 (99%)	4.0	0.51
JRBSD02	A	18	3.7	0.36
	B	19	3.8	0.39
	C	20	4.1	0.50
	D	20	4.0	0.56
		77 (96%)	3.9	0.45
JRBSD03	A	20	4.2	0.52
	B	19	4.0	0.57
	C	20	4.1	0.50
	D	20	3.9	0.49
		79 (99%)	4.1	0.52
JRBSD04[b]	A	19	3.9	0.38
	B	18	4.0	0.50
	C	20	4.0	0.37
	D	18	3.9	0.36
		75 (94%)	4.0	0.40
JRBSD05[b]	A	19	3.9	0.48
	B	20	3.8	0.42
	C	16	4.0	0.48
	D	18	4.0	0.50
		73 (91%)	3.9	0.47
HRBSD01	A	20	3.9	0.36
	B	20	4.0	0.42
	C	20	4.1	0.45
	D	20	4.1	0.48
		80 (100%)	4.0	0.43

Table 2. Survival and Growth of *Hyalella azteca* Exposed to Whole Sediments From The Surplus Operable Unit, Fort Sheridan, Illinois During a 28-Day Chronic Toxicity Test (Page 2 of 2)

Sample ID	Replicate[a]	No. Alive (% Survival)	Growth as Length (mm)	Growth as Dry Weight (mg)
HRBSD02	A	17	3.8	0.36
	B	18	3.8	0.43
	C	17	4.1	0.44
	D	20	3.8	0.42
		72 (90%)	3.9	0.41
HRBSD03	A	19	4.0	0.48
	B	18	4.3	0.58
	C	19	4.1	0.53
	D	20	4.2	0.57
		76 (95%)	4.2	0.54
HRBSD04	A	17	4.5	0.61
	B	18	4.0	0.54
	C	19	3.8	0.38
	D	16	4.0	0.45
		70 (88%)	4.1	0.50
HRBSD05	A	20	4.2	0.56
	B	20	3.8	0.43
	C	20	4.0	0.54
	D	20	4.0	0.53
		80 (100%)	4.0	0.52
BRBSD01	A	20	3.8	0.39
	B	18	3.7	0.41
	C	19	3.9	0.42
	D	20	4.0	0.45
		77 (96%)	3.9	0.42
BRBSD02	A	16	3.6	0.37
	B	19	3.6	0.35
	C	20	4.1	0.54
	D	19	4.1	0.53
		74 (93%)	3.9	0.45
SRBSD01[b]	A	20	4.2	0.60
	B	20	4.1	0.54
	C	20	3.8	0.44
	D	18	3.8	0.47
		78 (98%)	4.0	0.51

[a] Twenty organisms exposed per replicate
[b] Background sample

Appendix A: Chain-of-Custody and Traffic Information

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~*11~~	~~HRBSD04~~		~~W W~~			
*12	HRBSD05		(W) (W)	9-10-96	1850	
~~*13~~	~~SRBSD01~~		~~W W~~			
~~*14~~	~~JRBSD06~~		~~W W W W W W W W W W W W W W W W~~			
~~*15~~	~~HRBSD06~~		~~W W W W W W W W W W W W W W W W~~			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD, IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) KT B. G / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 KT B. G / ESE / 9-11-96 / 1700	Fedex	[signature] ESE 9/12/96 1130
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on 1
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 4 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

C.1481

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*1	BRBSD01		(W) (W)	9-10-96	1220	Bio-Assay
~~*2~~	~~BRBSD02~~		~~W W~~			
~~*3~~	~~JRBSD01~~		~~W W W W W W W W W W W W W W W W W~~			
~~*4~~	~~JRBSD02~~		~~W W~~			
~~*5~~	~~JRBSD03~~		~~W W~~			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Kris Erickson & Michael Quinones / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 [signature] ESE 9-10-96 1710	Fed Ex	
2		[signature] ESE 9/11/96 1130
3		

SAMPLER: Shipped on Ice? (Yes)/No; I anticipate shipping 5 (#) more samples on 9/11
SAMPLE CUSTODIAN: Custody Seals Used? (Yes)/No; If Yes, Seals Intact? (Yes)/No Interior Temp? 5 Deg C
Preservatives Audited? (Yes)/No Any Problems? (Yes)/No; If Yes, describe:

C. 426

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~*1~~	~~BRBSD01~~		~~W W~~			
*2	BRBSD02		W W	9-10-96	1305	Bio-Assay
~~*3~~	~~JRBSD01~~		~~W W W W W W W W W W W W W W W W W~~			
~~*4~~	~~JRBSD02~~		~~W W~~			
~~*5~~	~~JRBSD03~~		~~W W~~			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD, IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Michael Quinones & Kris Erickson/ESE

	RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1	[signature] ESE 9-10-96 1700	Fed Ex	[signature] ESE 9/11/96 1130
2			
3			

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping 5 (#) more samples on 9/11
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 4 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

C.1928

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*1	BRBSD01		W W			
*2	BRBSD02		W W W W W W W W			
*3	JRBSD01		W W W W W W W W			
*4	JRBSD02		W W	9-9-96	1455	BIO-ASSAY
*5	JRBSD03		W W	9-9-96	~~1455~~ 1700 mTG	BIO-ASSAY

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD, IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) _____

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 [illegible] / ESE / 9-9-96 / 1800	Storage	
2 [illegible] / ESE / 9-10-96 / 1700	Fedex	
3 [illegible]		[illegible] ESE 9/11/96 1130

SAMPLER: Shipped on Ice? (Yes)/No; I anticipate shipping 4 (#) more samples on 9/11
SAMPLE CUSTODIAN: Custody Seals Used? Yes/(No); If Yes, Seals Intact? Yes/No Interior Temp? 3 Deg C
Preservatives Audited? Yes/(No) Any Problems? Yes/(No) If Yes, describe:

C.1446

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN|BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~#6~~	~~JRBSD04~~		~~W W W W W W W W W W W W W W W W~~ ~~W~~			
~~#7~~	~~JRBSD05~~		~~W W~~			
~~#8~~	~~HRBSD01~~		~~W W W W W W W W W W W W W W W W~~ ~~W~~			
#9	HRBSD02		(W) (W)	9-10-96	0935	Bio-Assay
~~#10~~	~~HRBSD03~~		~~W W~~			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD, IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Kris Erickson & Michael Quinones

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	RECVD BY (Name/Organization/Date/Time)
1 [signature] ESE 9-10-96 1710	FedX	[signature] ESE 9/11/96 1130
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on 1
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 3 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

G436

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~#6~~	~~JRBSD04~~		~~W W W W W W W W W W W W W W W W W~~			
~~#7~~	~~JRBSD05~~		~~W W~~			
~~#8~~	~~HRBSD01~~		~~W W W W W W W W W W W W W W W W W~~			
~~#9~~	~~HRBSD02~~		~~W W~~			
#10	HRBSD03		(W) (W) For my	9-10-96	1040	Bio-Assay

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD, IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Kris Erickson & Michael Quinones / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 [signature] / ESE, Inc. / 9-10-96 / 1655	Fed Ex	[signature] ESE 9/11/96 11:30
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping 5 (#) more samples on 9/11
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 3 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:
One W arrived broken for #10 c. 1572

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~*11~~	~~HRBSD04~~		~~W W~~			
~~*12~~	~~HRBSD05~~		~~W W~~			
*13	SRBSD01		(W) (W)	9-10-96	1440	Bio-Assay
~~*14~~	~~JRBSD06~~		~~W W W W W W W W W W W W W W W W W~~			
~~*15~~	~~HRBSD06~~		~~W W W W W W W W W W W W W W W W W~~			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Kris Erickson & Michael Quinones/ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 [signature] ESE 9-10-96 1710	Fed Ex	[signature] ESE 9/11/96 1130
2		
3		

SAMPLER: Shipped on Ice? (Yes)/No; I anticipate shipping 5 (#) more samples on 9/11
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? (Yes)/No Interior Temp? 5 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/(No); If Yes, describe:

C, 426

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*6	[redacted]		[redacted] W			
	[redacted]		[redacted]			
*8	[redacted]		[redacted]			
*9	HRBSD01		W W W W W W W W	9-11-96	1110	
	[redacted]		[redacted]			
*10	[redacted]		[redacted]			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) KS B. GT / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 KS B. GT / ESE / 9-11-96 / 1700	FedEx	MJ / ESE 9/12/96 1130
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 2 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:
Three of eight W fractions C. 1843 arrived broken. MJ 9/12/96

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*1	[redacted]					
*2	[redacted]					
*3	JRBSD01		(W) (W) (W) (W) (W) (W) (W) (W) [redacted]	9-11-96	1810	Bio-Assay
	[redacted]					
*5	[redacted]					

MS 9/13/96 FA

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Michael Quinones & Kris Erickson/ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time
1 [signature] ESE 9-12-96 1635		[signature] ESE 9/13/96 1/3
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ___/___
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 5 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

One W fraction received broken No Cooler #

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*1	[redacted]					
*2	[redacted]					
(3)	JRBSD01		W W W W W W W W W W W W TO MS MSD	9-11-96	1810	Bio-Assay
	[redacted]					
*5	[redacted]					

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Michael Quinones & Kris Erickson/ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 [signature] ESE 9-12-96 1635	FEDEX	[signature] ESE 9/13/96 1130
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____
SAMPLE CUSTODIAN: Custody Seals Used? (Yes)/No; If Yes, Seals Intact? Yes/No Interior Temp? 3 Deg C
Preservatives Audited? Yes/(No) Any Problems? (Yes)/No; If Yes, describe:
Two W trap bottles broken. C. 295 arrived broken.

Envir .mental Sci-- ...eering, Inc. 08-21-.5 *** FIELD LOGSHEET *** FIELD GROUP: S IO
PROJECT N...: ...1 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #1 SI	IONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*6 J	[redacted] W W W W W W	9-13-96	0900	Bio-Assay
[redacted]				
[redacted]				
[redacted]				
[redacted]				

...F ...E ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
...IRC... ...ACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
HAZARD CODES: I-I... ...ABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COM...LETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

PLED BY ...me/Organization) MWR - ESE

...ISHED BY: (Name/Organization/Date/Time) VIA: REC'D BY (Name/Organization/Date/Time

1 MWR - ESE / 9-13-96 / 1700 Fed-X NL ESE 9/14/96 1300

2

3

SA...PLER: ...pr ? (Yes)/No; I anticipate shipping ___ (#) more samples on ___
SAMPLE CUS... y Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 4 Deg C
...reservat ...e... ... Yes/(No) Any Problems? Yes/(No) If Yes, describe:

ron: ital Science & Engineering, Inc. 08-21-96 ** FIELD LOGSHEET ** FIELD GROUP: SNB1
ROJ: NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PROJ MGR/LAB COORD: KAREN HATFIELD

E #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETERS
[redacted]	[redacted]		[redacted]			
*7	JRBSD05		(W) (W)	9-13-96	1015	Bio-Assay
[redacted]	[redacted]		[redacted]			
[redacted]	[redacted]		[redacted]			
[redacted]	[redacted]		[redacted]			

OTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

MPLED BY: (Name/Organization) [signature] ESE

LINQUISHED BY: (Name/Organization/Date/Time) VIA: REC'D BY (Name/Organization/Date/Time

1 [signature] ESE/9-13-96/1700 Fed-X [signature] ESE 9/14/96 1300

2

3

MPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____/____
MPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 3 Deg C
reservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

nvironmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNB..
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

SE #	SITE/STA HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*6	JRBSD04	W W W W W W W W W	9-13-96	0900	Bio-Assay
[redacted]					
[redacted]					
[redacted]					
[redacted]					

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

AMPLED BY: (Name/Organization) [signature] / ESE

	RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time
1	[signature] / ESE / 9-13-96 / 1700	Fed-X	[signature] with 9/14/96
2			
3			

AMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____ / ____ 4
AMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ____ Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBL
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
[redacted]						
[redacted]						
[redacted]						
~~*14~~ *15	JRBSD06		W W W W W W W W W [redacted]	9-11-96	1400	
[redacted]	JRBSD06		[redacted]			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) K. B. L. / ESE

	RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1	K. B. L. / ESE / 9-11-96 / 1700	FEDEX	ESE 91396
2			May Overman 1130
3			ESE 9/13/96 1430

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on 1 4 Deg C
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp?
Preservatives Audited? Yes/No Any Problems? Yes/No If Yes, describe:
→ 1 W fraction received broken
Coolers in 2 coolers Due To Sample Size and Weight

onmenta_ Science & Engineering, Inc. 08-21-96 *· FIELD LOGSHEET *** FIELD GROUP: SNBIO
JECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
[redacted]					
[redacted]					
[redacted]					
JRBSD06		W W W W W W W W	9-11-96	1400	
[redacted]					

E -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

LED BY: (Name/Organization) K. B. Li / ESE

NQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
K. B. Li / ESE / 9-11-96 / 1700	FEDEX	ESE 9/13/96
		Max Overman ESE 9/13/96 1430

PLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____ / ____ 3 Deg C
PLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp?
eservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:
1 W Fraction received broken
[redacted] DP 9/13/96

Environmental Science & Engineering, Inc. 08-21-.. *** FIELD LOGSHEET *** FIELD GROUP: SNSIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*6	[redacted]		[redacted] W			
*7	[redacted]		[redacted]			
*8	HRBSD01		W W W W W W W W	9-11-96	1110	
*9	[redacted]		[redacted]			
*10	[redacted]		[redacted]			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD, IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) K. B. ET / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 K. B. ET / ESE / 9-11-96 / 1700	FedEx	ESE 9/13/96 1130
2		
3		Mary Overman ESE 9/18/96 1430

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 5 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

3W fractions received broken

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNB...
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*11	HRBSD04		(W) (W)	9-11-96	1325	
[redacted]						
[redacted]						
[redacted]						
[redacted]						

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) KF B. 45 / ESE

	RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1	KF B. 45 / ESE / 9-11-96 / 1700	FEDEX	ESG 9/13/96 1130
2			
3			Mark Overman / ESE / 9-13-96 1430

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 3 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Appendix B: *Hyalella azteca* Sediment Toxicity Test Raw Data

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page:
ESE QA Form: 097A
Effective: August 1994

SUBJECT: TOXICITY TEST DATA SHEET

Client: Fort Sheridan

Project Number: A902087-0630

Test Material

See Page 139→142 of Effluent Log for Test Material Information

Test Conditions

[ ] Preliminary
[X] Definitive
[ ] Screening

[X] Static [ ] Flow-through

Duration: 28 days

Test Animal History

Species : H. azteca
Batch Number : 96-59
Age / Life Stage : Juvenile
Date Acclimation / Maintenance Began : 09-17-96
See Page 155 of Invertebrate Holding Log for raw data.
Mortality (%) 48 Hrs prior to testing: 0 %

Dilution Water: Hard Reconstituted water

Lighting : [X] Fluorescent [ ] Incandescent
Photoperiod : 16 hr Light : 8 hr Dark

Test Container Dimensions: 0.5 L x — W x 23 H
Test Solution Height : ~13 cm
Test Containers : [ ] Open [X] Covered
Test Container Volume : 1.5 Liters
Diluent Volume : 0.2 Liters

Reps / Concentration : 4
Animals / Replicate : 20

Test Area Used	Temperature (C)	Salinity (ppt)
Waterbath 8	20 +/- 1	NA +/-

Protocol Followed: ASTM E1383

Concentrations Based on: [ ] A.I. [X] W.M.

Container Composition: [X] Glass [ ] Plastic

Test Concentrations: (Units = %):	Control	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1	—
Amount Reference ~~Soil~~ Sediment Added (mL):	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Amount Test ~~Soil~~ Sediment Added (mL):	N/A	200	200	200	200	200	200	200	200	200	200	200	200	200	—

Additional Observations: 800mL of overlying water per replicate.

Data By: CR Date: 09-17-96

FORM: Soil94

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form Number: 018
Effective: APR 1993

Project: 4902087-0630 ~~1963916-0350 WFCB 89-11-96~~ H. azteca

DAILY LOG

09-16-96 CR Sediments remved from frig, sifted and homogenized. 200 mL of each sediment placed in 4 replicate chambers (1-L glass jars). Sediment leveled and 800 mL of dilution water placed in each replicate. Systems aerated at 280 bpm and allowed to settle over-night. Below are observations noted during sifting/homogenizing.

JRBS001	sandy
JRBS002	sandy
JRBS003	drk clay/sand mix
JRBS004	sandy
JRBS005	sandy
HRBS001	sandy
HRBS002	gasoline smell
HRBS003	drk loose loam
HRBS004	drk loam
HRBS005	drk loam
BRBS001	drk sand/odor
BRBS002	clay
SRBS001	clay/odor

09-17-96 Water quality measurements taken
LIGHT INTENSITY → 960 LUX
Organisms received acclimated to dilution water. Organisms in normal condition. 20 organisms loaded into each

Project: 4902087-0630

DAILY LOG

09-17-96 CR cont. replicate. Systems recaered & aeration will Continue thraignat testing period.
09-18-96 CR Test monitored & observed. BATH TEMP 19.3°C (FS-5).
09-19-96 CR TEST monitored & observed. BATH TEMP 19.1°C (FS-5)
09-20-96 CR Test monitered & observed. 50% of overlying water renewed by siphoning off water through nytex tube into screen. If any organisms were inadvertantly siphoned out they were pipetted back into the aquarium below the surface of the water. water was replaced into the system slowly and flow was directed onto side of chamber to minimize resuspension of the sediment. BATH TEMP 19.1 °C (FS-5). Organisms fed. (RC 0.1g, TET 0.02g ALG+YTC 1.0mL each)
09-21-96 CR Test observed & monitored BATH TEMP 19.5°C (FS-5)
09-22-96 CR Tests observed & monitored BATH TEMP 19.4°C (FS-5)
09-23-96 CR. Tests observed & monitored. Overlying water renewed (50%). BATH TEMP 19.8°C (FS-5)
09-24-96 CR Tests observed & monitered. BATH TEMP 19.8°C, LIGHT INTENSITY → 800 LUX

Project: 4902087-0630

DAILY LOG

09-25-96 CR. Test monitered + observed. BATH TEMP 18.9°C (FS-5). Overlying water will be re-newed twice a week (instead of three times) due to resuspension of sediments during renewals. water quality has remained in acceptable ranges. If conditions change and water quality seems to be affected by this decision, the original schedule of renewals will resume. Organisms fed 1.0ml of ALG+TC.

09-26-96 CR. Test water renewed. Test monitered and observed. BATH TEMP → 20.8°C (FS-5). Organisms ~~not~~ (a.w. 09-26-96) fed. RC/TET.

09-27-96 CR Test observed+monitered. BATH TEMP → 20.6°C (FS-5)

9-28-96 MD - Test observed + monitored. Bath temp → 20.6°C (FS-5).

9-29-96 MD - Test observed + monitored. Bath temp → 20.7°C (FS-5)

9-30-96 CR - Test observed + monitered. Bath temp → 20.3°C (FS-5). Water renewed.

10-01-96 CR Test observed + monitered. BATH TEMP → 19.7°C (FS-5)

note: overlying water has remained clearer since reducing the number of renewals per week; WQ is remaining stable.

10-02-96 CR TEST observed + monitored. BATH TEMP → 19.9°C (FS-5)

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form Number: 018
Effective: APR 1993

Project: 4902087-0630

DAILY LOG

10-03-96 CR. Test observed + monitored, water renewed BATH TEMP → 19.8°C. Organisms fed ALG/YTC
LIGHT INTENSITY → 860 LUX

10-04-96 MO - Test observed + monitored. Bath temps 20.8°C. (FS-5)

10-05-96 CR. Test observed + monitored. Bath temp → 20.6°C. (FS-5)

10-06-96 CR Test observed + monitored. Bath temp → 20.8°C (FS-5)

10-07-96 CR. Test observed + monitored. BATH TEMP → 21.1°C (FS-5) water renewed, organisms fed RC/TET/ALG/YTC.

10-08-96 MO - Test observed + monitored. Bath temp → 20.2°C (FS-5)

10-09-96 MO - Test observed + monitored. Bath temp → 20.1°C (FS-5)

10-10-96 CR - Test observed + monitored. BATH TEMP → 20.2°C. Water renewed Test organisms Fed ALG/YTC.

10-11-96 MO - Test observed + monitored. Bath temp → 20.0°C (FS-5)

10-12-96 MO - Test observed + monitored. Bath temp → 20.1°C (FS-5)

10-13-96 MO - Test observed + monitored. Bath temp → 20.3°C (FS-5)

10-14-96 CR - Test observed + monitored. BATH TEMP → 19.6°C. (FS-5)

10-15-96 MO - Test ended. Bath temp → 19.5°C (FS-5). H. azteca separated from sediment, enumerated, and preserved in a buffered formalin solution for length + weight measurements.

Ft. Sheridan (SOU) - H. azteca survival
File: has Transform: NO TRANSFORMATION MO 10/24/96

Shapiro - Wilk's test for normality

D = 0.238

W = 0.984

Critical W (P = 0.05) (n = 24) = 0.916
Critical W (P = 0.01) (n = 24) = 0.884

Data PASS normality test at P=0.01 level. Continue analysis.

Ft. Sheridan (SOU) - H. azteca survival
File: has Transform: NO TRANSFORMATION

Bartlett's test for homogeneity of variance
Calculated B1 statistic = 1.12

Table Chi-square value = 15.09 (alpha = 0.01, df = 5)
Table Chi-square value = 11.07 (alpha = 0.05, df = 5)

Data PASS B1 homogeneity test at 0.01 level. Continue analysis.

Ft. Sheridan (SOU) - H. azteca survival
File: has Transform: NO TRANSFORMATION MD 10/24/96

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	0.101	0.020	1.526
Within (Error)	18	0.238	0.013	
Total	23	0.339		

Critical F value = 2.77 (0.05,5,18)
Since F < Critical F FAIL TO REJECT Ho: All equal

Arg: 4902087-0630
MO 10/25/96

Ft. Sheridan (SOU) - H. azteca survival
File: has Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 1 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION		TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1	Background →	SRBSD01	1.407	1.407		
2		HRBSD02	1.264	1.264	1.758	
3		HRBSD03	1.350	1.350	0.701	
4		HRBSD04	1.219	1.219	2.312	
5		BRBSD01	1.378	1.378	0.350	
6		BRBSD02	1.314	1.314	1.137	

Dunnett table value = 2.41 (1 Tailed Value, P=0.05, df=18,5)

Ft. Sheridan (SOU) - H. azteca survival
File: has Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 2 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION		NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1		SRBSD01	4			
2		HRBSD02	4	0.196	13.9	0.143
3		HRBSD03	4	0.196	13.9	0.057
4		HRBSD04	4	0.196	13.9	0.188
5		BRBSD01	4	0.196	13.9	0.029
6		BRBSD02	4	0.196	13.9	0.093

Ft. Sheridan (SOU) - H. azteca dry weight
File: hag Transform: NO TRANSFORMATION

MD 10/25/96
Proj. 4902087-0630

Shapiro - Wilk's test for normality

D = 0.060

W = 0.962

Critical W (P = 0.05) (n = 20) = 0.905
Critical W (P = 0.01) (n = 20) = 0.868

Data PASS normality test at P=0.01 level. Continue analysis.

Ft. Sheridan (SOU) - H. azteca dry weight
ile: hag Transform: NO TRANSFORMATION

MD 10/25/96
Proj. 490 2087-0630

---

artlett's test for homogeneity of variance
alculated B1 statistic = 5.84

---

able Chi-square value = 13.28 (alpha = 0.01, df = 4)
Table Chi-square value = 9.49 (alpha = 0.05, df = 4)

ata PASS B1 homogeneity test at 0.01 level. Continue analysis.

Ft. Sheridan (SOU) - H. azteca dry weight
File: hag Transform: NO TRANSFORMATION

MO 10/25/96
Proj. 4902087-0030

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	4	0.027	0.007	1.668
Within (Error)	15	0.060	0.004	
Total	19	0.087		

Critical F value = 3.06 (0.05,4,15)
Since F < Critical F FAIL TO REJECT Ho: All equal

MO 10/25/90
Proj. 4902087-0630

Pt. Sheridan (SOU) - H. azteca dry weight
File: hag Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 1 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1	Background → SRBSD01	0.513	0.513		
2	HRBSD01	0.428	0.428	1.901	
3	HRBSD02	0.412	0.412	2.237	
4	BRBSD01	0.418	0.418	2.125	
5	BRBSD02	0.448	0.448	1.454	

Dunnett table value = 2.36 (1 Tailed Value, P=0.05, df=15,4)

Pt. Sheridan (SOU) - H. azteca dry weight
File: hag Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 2 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	SRBSD01	4			
2	HRBSD01	4	0.106	20.6	0.085
3	HRBSD02	4	0.106	20.6	0.100
4	BRBSD01	4	0.106	20.6	0.095
5	BRBSD02	4	0.106	20.6	0.065

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 4902087-0630

SEDIMENT: CONTROL TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.1	146	8.0	8.3	280	CR 09-17-96 1300
1	B	19.6	—	8.0	8.3	—	CR 09-18-96 1200
2	C:O	19.5	—	7.7	8.7	—	CR 09-19-96 1330
	C:R	-	—	—	—	—	—
3	D O	19.3	—	7.6	8.7	290	CR 09-20-96 1000
	D R	19.7		8.1	8.8	285	CR 09-20-96 1200
4	A	19.5	—	7.9	8.0	—	CR 09-21-96 1100
5	B	19.6	—	7.9	7.8	—	CR 09-22-96 1200
6	C O	19.8	144	7.9	8.5	290	CR 09-23-96 1100
	C R	20.0		7.9	8.5	290	CR 09-23-96 1200
7	D	18.9	—	7.9	8.6	—	CR 09-24-96 0830
8	A	19.2	—	7.7	8.7	—	CR 09-25-96 0900
9	B O	20.8	—	7.9	8.6	295	CR 9-26-96 1000
	B R	21.0	—	8.1	8.7	270	CR 9-26-96 1130
10	C	20.6	—	7.5	8.7	—	CR 9-27-96 0900
11	D	20.7	—	7.7	8.6	—	MO 9-28-96 1230
12	A	20.9	—	7.6	8.7	—	MO 9-29-96 1045
13	B O	20.5	—	7.7	8.9	270	CR 9-30-96 1315
	B R	20.6		8.2	9.0	265	1430
INSTR/METHOD:		FS5	TH+	SA29A	DO1	SCT3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Fort Sherman PROJECT NUMBER: 490208.0630

SEDIMENT: Control TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
14	C	19.8	—	7.6	8.4	—	CR 10-01-96 1000
15	D	20.0	—	7.7	8.9	—	CR 10-02-96 1000
16	A O	20.4	—	7.8	8.6	270	CR 10-03-96 1300
	A R	20.9	— 130	8.0	8.5	260	CR 10-03-96 1400
17	B	20.8	—	7.8	8.5	—	MO 10-04-96 1100
18	C	20.8	—	7.8	8.5	—	CR 10-05-96 1200
19	D	20.9	—	7.9	8.5	—	CR 10-06-96 1130
20	A O	21.0	—	7.9	8.3	260	CR 10-07-96 0900
	A R	20.8		8.4	8.5	250	1000
21	B	20.3	—	7.7	8.8	—	MO 10-08-96 1400
22	C	20.0	—	7.6	8.7	—	MO 10-09-96 1315
23	D O	20.1	—	7.7	8.5	255	CR 10-10-96 0900
	D R	19.9	—	7.8	8.6	240	CR 10-10-96 1020
24	A	20.0	—	7.7	8.6	—	MO 10-11-96 0745
25	B	20.2	—	7.7	8.5	—	MO 10-12-96 0945
26	C	20.4	—	7.7	8.6	—	MO 10-13-96 1045
27	D	19.5	—	7.6	8.8	—	CR 10-14-96 1200
28	A	19.6	—	7.7	8.7	—	MO 10-15-96 0800
INSTR/METHOD:		FS-5	Tidor	SA 220A	DO-1	SG-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 490287-0630

SEDIMENT: JRBSD21 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	8.1	8.3	330	CR 09-17-96 1330 ~~1330~~ w/ CR 09-19-96
1	B	19.7	—	8.0	8.3	—	CR 09-18-96 1200
2	C O	19.5	—	7.7	8.7	-	CR 09-19-96 1330
	C R	-	—	—	—	—	—
3	D O	19.3	—	7.7	8.6	340	CR 09-20-96 1000
	D R	19.6		8.1	8.8	300	CR 09-20-96 1200
4/5	A	19.5	—	8.0	8.3	—	CR 09-21-96 1100
	B	19.6	—	8.0	8.0	—	CR 09-22-96 1200
6	C O	19.7	—	7.7	8.6	290	CR 09-23-96 1100
	C R	20.0		7.9	8.7	270	CR 09-23-96 1200
7	D	18.7	—	7.9	8.6	—	CR 09-24-96 0830
8	A	19.2	—	7.6	8.7	—	CR 09-25-96 0900
9	B O	20.8	—	7.8	8.7	310	CR 9-26-96 1000
	B R	21.0	—	8.1	8.6	290	CR 9-26-96 1130
10	C	20.6	— tupac 09-27-96	~~8.6~~ 7.5	8.6	—	CR 9-27-96 0900
11	D	20.7	—	7.6	8.5	—	MO 9-28-96 1230
12	A	20.9	—	7.6	8.6	—	MO 9-29-96 1045
13	B O	20.6	—	7.7	8.7	300	CR 09-30-96 1315
	B R	20.6		8.2	9.0	275	1430
INSTR/METHOD:		YSI	THT	SA290 A	DO-1	SCT-3	—

KEY: TEMP=TEMPERATURE (C) SAL=SALINITY (ppt) HARD=HARDNESS (mg/L) DO=DISSOLVED OXYGEN (ppm) COND=CONDUCTIVITY (umhos) TECH=TECHNICIAN O="OLD" H20 R=RENEWED H20

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 41962087-0630

SEDIMENT: JRBSD21 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
14	C	19.8	—	7.7	8.6	—	CR 10-01-96 1000
15	D	20.0	—	7.7	8.9	—	CR 10-02-96 1000
16	AO	20.4	—	7.7	8.6	290	CR 10-03-96 1300
	AR	20.9	—	8.0	8.5	275	CR 10-03-96 1400
17	B	20.8	—	7.7	8.5	—	MO 10-04-96 1100
18	C	20.8	—	7.8	8.5	—	CR 10-05-96 1200
19	D	20.7	—	7.7	8.5	—	CR 10-06-96 1130
20	AO	21.0	—	7.8	8.5	260	CR 10-07-96 0900
	AR	20.8		8.3	8.5	250	1000
21	B	20.3	—	7.7	8.7	—	MO 10-08-96 1400
22	C	20.0	—	7.6	8.7	—	MO 10-09-96 1315
23	DO	20.1	—	7.7	8.6	270	CR 10-10-96 0900
	DR	20.0	—	7.8	8.6	255	CR 10-10-96 1020
24	A	20.0	—	7.6	8.6	—	MO 10-11-96 0745
25	B	20.2	—	7.7	8.5	—	MO 10-12-96 0945
26	C	20.4	—	7.8	8.6	—	MO 10-13-96 1045
27	D	19.5	—	7.6	8.8	—	CR 10-14-96 1200
28	A	19.6	—	7.8	8.8	—	MO 10-15-96 0800
INSTR/METHOD:		FS-5	Titr	SA 290-A	DO 1	SCT 3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 490287-0630

SEDIMENT: JRBSD02 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	8.1	8.3	328	CR 09-17-96 1300
1	B	19.7	—	7.9	8.3	—	CR 09-18-96 1200
2	C O	19.5	—	7.7	8.7	—	CR 09-19-96 1330
	C R	—	—	—	—	—	—
3	D O	19.3	—	7.7	8.6	340	CR 09-20-96 1000
	D R	19.6		8.1	8.6	300	CR 09-20-96 1200
4	A	19.5	—	8.0	8.3	—	CR 09-21-96 100
5	B	19.6	—	7.9	8.0	—	CR 09-22-96 1200
6	C O	19.8	—	7.7	8.6	340	CR 09-23-96 1100
	C R	20.0		7.9	8.7	290	1200
7	D	18.6	—	7.9	8.6	—	CR 09-24-96 0830
8	A	19.2	—	7.7	8.7	—	CR 09-25-96 0900
9	B O	20.8	—	8.0	8.7	316	CR 9-26-96 1000
	B R	21.0	—	8.1	8.6	290	CR 9-26-96 1130
10	C	20.7	—	7.6	8.7	—	CR 9-27-96 0900
11	D	20.7	—	7.7	8.6	—	MO 9-28-96 1230
12	A	20.9	—	7.7	8.7	—	MO 9-29-96 1045
13	B O	20.6	—	7.6	8.2	305	CR 09-30-96 1315
	B R	20.6		8.1	9.0	280	1430
INSTR/METHOD:		YSI	THR	29CA	DO1	SCT3	—

KEY: TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET—WATER QUALITY

SPONSOR: CRT SHERIDAN PROJECT NUMBER: 490208?-0630

SEDIMENT: JRBS002 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
14	C	19.7	—	7.8	8.6	—	CR 10-01-96 1000
15	D	20.0	—	7.8	8.9	—	CR 10-02-96 1000
16	A:O	20.4	—	7.9	8.6	290	CR 10-03-96 1300
	AR	20.9	—	8.1	8.5	265	CR 10-03-96 1400
17	B	20.8	—	7.9	8.5	—	MO 10-04-96 1100
18	C	20.8	—	7.8	8.5	—	CR 10-05-96 1200
19	D	20.7	—	7.9	8.5	—	CR 10-06-96 1130
20	AO	21.0	—	7.8	8.5	275	CR 10-07-96 0900
	AR	20.8		8.3	8.5	260	CR 1000
21	B	20.3	—	7.8	8.7	—	MO 10-08-96 1400
22	C	20.0	—	7.7	8.7	—	MO 10-09-96 1315
23	DO	20.1		7.7	8.6	280	CR 10-10-96 0900
	DR	20.1	—	7.8	8.6	260	CR 10-10-96 1000
24	A	20.0	—	7.7	8.5	—	MO 10-11-96 0745
25	B	20.2	—	7.8	8.5	—	MO 10-12-96 0945
26	C	20.5	—	7.7	8.6	—	MO 10-13-96 1045
27	D	19.5	—	7.7	8.8	—	CR 10-14-96 1200
28	A	19.6	—	7.8	8.8	—	MO 10-15-96 0800
INSTR/METHOD:		FS-5	Titr	SA 290A	DO 1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FT SHERIDAN PROJECT NUMBER: 490208706.30

SEDIMENT: JRBS003 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	8.0	8.3	310	CR 09-17-96 1300
1	B	19.9	—	7.8	8.4	—	CR 09-18-96 1200
2	C:O	19.6	—	7.7	8.7	—	CR 09-19-96 1330
	C:R	—	—	—	—	—	—
3	D	19.3 19.6	—	7.6 8.1	8.6 8.6	315 290	CR 09-20-96 1000 CR 09-20-96 1200
4/5	A	19.5	—	7.9	8.0	—	CR 09-21-96 1100
	B	19.6	—	7.8	8.0	—	CR 09-22-96 1200
6	C^{O}_{R}	19.8 20.6	—	7.9 8.0	8.6 8.6	320 290	CR 09-23-96 1100 CR 09-23-96 1200
7	D	18.7	—	7.9	8.6	—	CR 09-24-96 0830
8	A	19.2	—	7.7	8.7	—	CR 09-25-96 0900
9	B_O	20.8	—	8.0	8.7	300	CR 9-26-96 1000
	B_R	21.0	—	8.1	8.7	280	CR 9-26-96 1130
10	C	20.7	—	7.7	8.7	—	CR 9-27-96 0900
11	D	20.8	—	7.8	8.6	—	MO 9-28-96 1230
12	A	20.9	—	7.6	8.8	—	MO 9-29-96 1045
13	B^{O}_{R}	20.7 20.6	—	7.7 8.2	8.7 9.0	275 265	CR 09-30-96 1315 1430
INSTR/METHOD:		YS-5	Titr	SA 220A	DO-1	SC3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 190205-7-0630

SEDIMENT: JRRSD03 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
14	C	19.7	—	7.7	8.6	—	CR 10-01-96 1000
15	D	20.0	—	7.8	8.9	—	CR 10-02-96 1000
16	A-O	20.5	—	7.8	8.6	285	CR 10-03-96 1300
	A-R	20.9	—	8.0	8.5	265	CR 10-03-96 1400
17	B	20.8	—	7.8	8.4	—	MO 10-04-96 1100
18	C	20.8	—	7.9	8.5	—	CR 10-05-96 1200
19	D	20.7	—	7.9	8.5	—	CR 10-06-96 1130
20	A^{O}_{R}	21.0 20.8	—	7.9 8.3	8.5 8.5	270 250	CR 0900 CR 10-07-96 1000
21	B	20.3	—	7.8	8.7	—	MO 10-08-96 1400
22	C	20.0	—	7.7	8.7	—	MO 10-09-96 1315
23	DO	20.1	—	7.7	8.6	275	CR 10-10-96 0900
	DR (mislabeled R)	20.1	—	7.8	8.6	260	CR 10-10-96 1000
24	A	20.1	—	7.7	8.5	—	MO 10-11-96 0745
25	B	20.2	—	7.8	8.4	—	MO 10-12-96 0945
26	C	20.5	—	7.8	8.5	—	MO 10-13-96 1045
27	D	19.5	—	7.7	8.9	—	CR 10-14-96 1200
28	A	19.6	—	7.8	8.7	—	MO 10-15-96 0800
INSTR/METHOD:		FS S	Thr	SA 290A	DO 1	SCT-3	—

KEY: TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 4902 R7-0630

SEDIMENT: IRB5004 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	8.0	8.3	350	CR 09-17-96 1300
1	B	19.7	—	8.1	8.3	—	CR 09-18-96 1200
2	C:O	19.6	—	7.8	8.7	—	CR 09-19-96 1330
	C:R	—	—	—	—	—	—
3	D^{O}_{R}	19.3 19.7	—	7.8 8.2	8.6 8.6	360 305	CR 09-20-96 1000 CR 09-20-96 1200
4	A	19.5	—	7.9	8.2	—	CR 09-21-96 1100
5	B	19.6	—	7.9	8.0	—	CR 09-22-96 1200
6	C^{O}_{R}	19.8 20.2	—	7.9 8.0	8.7 8.7	340 300	CR 09-23-96 1100 1200
7	D	18.6	—	7.9	8.6	—	CR 09-24-96 0830
8	A	19.2	—	7.7	8.6	—	CR 09-25-96 0900
9	B O	20.8	—	8.0	8.7	320	CR 9-26-96 1000
	B R	21.0	—	8.1	8.6	300	CR 9-26-96 1130
10	C	20.7	—	7.7	8.6	—	CR 9-27-96 0900
11	D	20.8	—	7.9	8.5	—	MO 9-28-96 1230
12	A	20.9	—	7.7	8.7	—	MO 9-29-96 1045
13	B^{O}_{R}	20.7 20.6	—	7.9 8.2	8.8 9.0	295 270	CR 09-30-96 1315 1430
INSTR/METHOD:		FS-5	Titr	SA 290A	001	SCT3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H2O
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H2O
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: ~~FT~~ FT SHERIDAN PROJECT NUMBER: 490208-9-C630

SEDIMENT: JRBSD04 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
14	C	19.7	—	7.7	8.6	—	CR 10-01-96 1000
15	D	20.0	—	7.8	8.9	—	CR 10-02-96 1000
16	AO	20.5	—	7.9	8.6	290	CR 10-03-96 1300
	AR	21.0	—	8.1	8.5	270	CR 10-03-96 1400
17	B	20.8	—	7.7	8.4	—	MO 10-04-96 1100
18	C	20.7	—	7.8	8.4	—	CR 10-05-96 1200
19	D	20.7	—	7.8	8.5	—	CR 10-06-96 1130
20	AO	21.0	—	8.0	8.5	280	CR 10-07-96 0900
	AR	20.8		8.1	8.5	260	1000
21	B	20.2	—	7.7	8.6	—	MO 10-08-96 1400
22	C	20.0	—	7.7	8.7	—	MO 10-09-96 1315
23	DO	20.1	—	7.7	8.6	275	CR 10-10-96 0900
	DR	20.1	—	7.8	8.6	255	CR 10-10-96 1000
24	A	20.1	—	7.8	8.6	—	MO 10-11-96 0745
25	B	20.2	—	7.7	8.5	—	MO 10-12-96 0945
26	C	20.6	—	7.8	8.5	—	MO 10-13-96 1045
27	D	19.5	—	7.7	8.8	—	CR 10-14-96 1200
28	A	19.6	—	7.8	8.8	—	MO 10-15-96 0800
INSTR/METHOD:		FS S	T&r	SA 210-A	DO -1	SGT 3	—

K E Y: TEMP=TEMPERATURE (C) SAL=SALINITY (ppt) HARD=HARDNESS (mg/L) DO=DISSOLVED OXYGEN (ppm) COND=CONDUCTIVITY (umhos) TECH=TECHNICIAN O="OLD" H20 R=RENEWED H20

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 470287-5730

SEDIMENT: JRSSD05 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	8.1	8.2	330	CR 09-17-96 1300
1	B	19.8	—	8.1	8.3	—	CR 09-18-96 1200
2	C:O	19.5	—	7.7	8.7	—	CR 09-19-96 1330
	C:R	—	—	—	—	—	—
3	D^{O}_{R}	19.3 19.6	—	7.8 8.1	8.6 8.6	325 300	CR 09-20-96 1000 CR 09-20-96 1200
4	A	19.5	—	7.9	8.0	—	CR 09-21-96 1100
5	B	19.6	—	7.9	8.0	—	CR 09-22-96 1200
6	C^{O}_{R}	19.8 20.2	—	7.8 8.0	8.6 8.7	330 290	CR 09-23-96 1100 1200
7	D	18.9	—	7.9	8.7	—	CR 09-24-96 0830
8	A	19.2	—	7.8	8.6	—	CR 09-25-96 0900
9	B_O	20.8	—	8.1	8.7	310	CR 9-26-96 1000
	B_R	21.0	—	8.1	8.6	295	CR 9-26-96 1130
10	C	20.7	—	7.8	8.6	—	CR 9-27-96 0900
11	D	20.8	—	7.8	8.5	—	MO 9-28-96 1230
12	A	20.9	—	7.8	8.6	—	MO 9-29-96 1045
13	B^{O}_{R}	20.7 20.6	—	7.9 8.2	8.8 9.0	290 275	CR 09-30-96 1315 1430
INSTR/METHOD:		FS-5	T/H	SA29A	DO1	SCT3	

KEY: TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 490207-0630

SEDIMENT: JRBS005 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
14	C	19.7	—	7.7	8.6	—	CR 10-01-96 1000
15	D	20.0	—	7.8	8.9	—	CR 10-02-96 1000
16	A:O	20.5	—	7.8	8.6	290	CR 10-03-96 1300
	A:R	21.0	—	8.1	8.5	265	CR 10-03-96 1400
17	B	20.8	—	7.8	8.4	—	MO 10-04-96 1100
18	C	20.7	—	7.8	8.5	—	CR 10-05-96 1200
19	D	20.8	—	7.9	8.6	—	CR 10-06-96 1130
20	A^{O}_{R}	21.0 20.8	—	8.0 8.4	8.5 8.5	275 260	CR 10-07-96 0900 1000
21	B	20.2	—	7.7	8.6	—	MO 10-08-96 1400
22	C	20.0	—	7.7	8.7	—	MO 10-09-96 1315
23	D_O	20.1		7.8	8.6	275	CR 10-10-96 0900
	D_R	20.1	—	7.8	8.6	250	CR 10-10-96 1000
24	A	20.1	—	7.7	8.5	—	MO 10-11-96 0745
25	B	20.2	—	7.7	8.3	—	MO 10-12-96 0945
26	C	20.6	—	7.7	8.5	—	MO 10-13-96 1045
27	D	19.5	—	7.7	8.8	—	CR 10-14-96 1200
28	A	19.7	—	7.8	8.7	—	MO 10-15-96 0800
INSTR/METHOD:		FS	T-H	SA	DO	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 49-02-8749-630

SEDIMENT: HRBSD01 TEST SPECIES: H AZTECA

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	8.1	8.2	335	CR 09-17-96 1300
1	B	19.7	—	8.1	8.3	—	CR 09-18-96 1200
2	C:O	19.5	—	7.8	8.7	—	CR 09-19-96 1330
	C:R	—	—	—	—	—	~~CR 09-20-96~~ CR 9-19-96
3	D O	19.3	—	7.8	8.6	340	CR 09-20-96 1000
	D R	19.7		8.1	8.6	300	CR 09-20-96 1200
4	A	19.6	—	7.9	8.0	—	CR 09-21-96 1100
5	B	19.5	—	7.8	7.9	—	CR 09-22-96 1200
6	C O	19.8	—	7.8	8.7	320	CR 09-23-96 1100
	C R	20.2		8.1	8.6	290	1200
7	D	18.9	—	7.9	8.7	—	CR 09-24-96 0830
8	A	19.2	—	7.8	8.6	—	CR 09-25-96 0900
9	B O	20.8	—	7.8	8.7	320	CR 9-26-96 1000
	B R	21.0	—	8.1	8.7	290	CR 9-26-96 1130
10	C	20.7	—	7.8	8.6	—	CR 9-27-96 0900
11	D	20.8	—	7.8	8.7	—	MO 9-28-96 1220
12	A	20.9	—	7.7	8.7	—	MO 9-29-96 1045
13	B O	20.7	—	7.8	8.9	290	CR 09-30-96 1315
	B R	20.7		8.1	9.0	270	1430
INSTR/METHOD:		FS5	THT	SCA	DO1	SCT3	—

K E Y
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 490208 7-0630

SEDIMENT: HRBSD01 TEST SPECIES: Hazteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
14	C	19.7	—	7.7	8.6	—	CR 10-01-96 1000
15	D	19.9	—	7.9	8.9	—	CR 10-02-96 1000
16	A:O	20.6	—	7.9	8.6	290	CR 10-03-96 1300
	A:R	21.0	—	8.1	8.5	265	CR 10-04-96 1400
17	B	20.8	—	7.8	8.5	—	MO 10-04-96 1100
18	C	20.8	—	7.9	8.6	—	CR 10-05-96 1200
19	D	20.7	—	7.9	8.6	—	CR 10-06-96 1130
20	A O	21.0	—	8.0	8.5	280	0900
	A R	20.8		8.4	8.6	260	CR 10-07-96 1000
21	B	20.2	—	7.7	8.7	—	MO 10-08-96 1400
22	C	20.0	—	7.7	8.6	—	MO 10-09-96 1315
23	D O	20.1	—	7.7	8.5	275	CR 10-10-96 0900
	D R	20.1	—	7.8	8.6	250	CR 10-10-96 1000
24	A	20.1	—	7.7	8.4	—	MO 10-11-96 0745
25	B	20.2	—	7.7	8.5	—	MO 10-12-96 0945
26	C	20.5	—	7.7	8.4	—	MO 10-13-96 1045
27	D	19.5	—	7.7	8.8	—	CR 10-14-96 1200
28	A	19.7	—	7.8	8.8	—	MO 10-15-96 0800
INSTR/METHOD:		FS 5	Titr	SA 290A	DO-1	SC-3	—

KEY
TEMP=TEMPERATURE (C) SAL=SALINITY (ppt) HARD=HARDNESS (mg/L)
DO=DISSOLVED OXYGEN (ppm) COND=CONDUCTIVITY (umhos) TECH=TECHNICIAN
O="OLD" H20 R=RENEWED H20

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: COE SHERIDAN PROJECT NUMBER: 42287-0630

SEDIMENT: HBSD57 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	7.9	8.2	345	CR 09-17-96 1300
1	B	19.8	—	8.0	8.3	—	CR 09-18-96 1200
2	C O	19.5	—	7.7	8.7	—	CR 09-19-96 1330
	C R	—	—	—	—	—	—
3	D O	19.3	—	7.8	8.5	360	CR 09-20-96 1000
	D R	19.6		8.1	8.6	305	CR 09-20-96 1200
4	A	19.5	—	7.9	8.0	—	CR 09-21-96 1100
5	B	19.6	—	7.9	7.9	—	CR 09-22-96 1200
6	C O	19.8	—	7.7	8.7	340	CR 09-23-96 1100
	C R	20.2		8.0	8.7	290	1200
7	D	18.9	—	8.0	8.7	—	CR 09-24-96 0830
8	A	19.2	—	7.7	8.7	—	CR 09-25-96 0900
9	B O	20.8	—	8.0	8.7	320	CR 9-26-96 1000
	B R	21.0	—	8.1	8.6	290	CR 9-26-96 1130
10	C	20.7	—	7.8	8.7	—	CR 9-27-96 0900
11	D	20.8	—	7.9	8.7	—	MO 9-28-96 1230
12	A	20.9	—	7.7	8.8	—	MO 9-29-96 1045
13	B O	20.7	—	7.8	8.9	310	CR 09-30-96 1315
	B R	20.7		8.1	9.0	280	1430
INSTR/METHOD:		FS-5	THT	SA 2GCA	DO1	SCT3	—

K E Y
TEMP=TEMPERATURE (C) SAL=SALINITY (ppt) HARD=HARDNESS (mg/L)
DO=DISSOLVED OXYGEN (ppm) COND=CONDUCTIVITY (umhos) TECH=TECHNICIAN
O="OLD" H20 R=RENEWED H20

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FERT SUBSTRATE PROJECT NUMBER: 1902087-0630

SEDIMENT: HRBSD02 TEST SPECIES: Hyalella

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
14	C	19.7	—	7.8	8.6	—	CR 10-01-96 1000
15	D	19.9	—	7.9	8.9	—	CR 10-02-96 1000
16	A:O	20.6	—	7.9	8.5	305	CR 10-03-96 1300
	A:R	21.0	—	8.0	8.5	270	CR 10-03-96 1400
17	B	20.9	—	7.9	8.4	—	MO 10-04-96 1100
18	C	20.8	—	7.8	8.5	—	CR 10-05-96 1200
19	D	20.8	—	7.9	8.5	—	CR 10-06-96 1130
20	A^{O}_{R}	21.0 20.8	—	8.0 8.4	8.5 8.6	300 270	CR 10-07-96 0900 1000
21	B	20.2	—	7.8	8.7	—	MO 10-08-96 1400
22	C	20.0	—	7.7	8.7	—	MO 10-09-96 1315
23	D_O	20.1	—	7.8	8.5	285	CR 10-10-96 0900
	D_R	20.1	—	7.8	8.6	260	CR 10-10-96 1000
24	A	20.1	—	7.8	8.5	—	MO 10-11-96 0745
25	B	20.2	—	7.7	8.6	—	MO 10-12-96 0945
26	C	20.5	—	7.8	8.4	—	MO 10-13-96 1045
27	D	19.5	—	7.8	8.8	—	CR 10-14-96 1200
28	A	19.7	—	7.9	8.9	—	MO 10-15-96 0800
INSTR/METHOD:		FS S	Titr	SA 290A	DO 1	SG-3	—

KEY: TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN **PROJECT NUMBER:** 490287-9230

SEDIMENT: HRBS003 **TEST SPECIES:** H azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	8.0	8.2	355	CR 091796 1300
1	B	19.8	—	8.0	8.3	—	CR 09-18-96 1200
2	C:O	19.5	—	7.7	8.8	—	CR 09-19-96 1330
	C:R	—	—	—	—	—	—
3	D O	19.3	—	7.8	8.5	395	CR 09-20-96 1000
	D R	19.7		8.1	8.5	320	CR 09-20-96 1200
4	A	19.6	—	7.9	8.3	—	CR 09-21-96 1100
5	B	19.5	—	7.8	8.0	—	CR 09-22-96 1200
6	C O	19.8	—	7.8	8.6	350	CR 09-23-96 1100
	C R	20.2		8.0	8.7	300	1200
7	D	18.8	—	8.0	8.6	—	CR 09-24-96 0830
8	A	19.2	—	7.8	8.7	—	CR 09-25-96 0900
9	B O	20.8	—	8.0	8.7	325	CR 9-26-96 1000
	B R	21.0	—	8.1	8.6	290	CR 9-26-96 1130
10	C	20.7	—	7.6	8.6	—	CR 9-27-96 0900
11	D	20.8	—	7.7	8.5	—	MO 9-28-96 1230
12	A	20.9	—	7.7	8.6	—	MO 9-29-96 1045
13	B O	20.7	—	7.9	8.9	320	CR 09-30-96 1315
	B R	20.7		8.1	9.0	280	1430
INSTR/METHOD:		YSI-5	T+T	SA 290A	DO-1	SC13	

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 4902087-0630

SEDIMENT: HRBSD03 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
14	C	19.7	—	7.8	8.6	—	CR 10-01-96 1000
15	D	19.9	—	7.9	8.9	—	CR 10-02-96 1000
16	A:O	20.6	—	7.9	8.5	320	CR 10-03-96 1300
	A:R	21.0	—	8.0	8.5	275	CR 10-03-96 1400
17	B	20.9	—	7.8	8.5	—	MO 10-04-96 1100
18	C	20.8	—	7.8	8.6	—	CR 10-05-96 1200
19	D	20.8	—	7.8	8.6	—	CR 10-06-96 1130
20	A O	21.0	—	8.0	8.5	340	CR 10-07-96 0900
	A R	20.8		8.3	8.6	275	1000
21	B	20.2	—	7.8	8.7	—	MO 10-08-96 1400
22	C	20.0	—	7.7	8.6	—	MO 10-09-96 1315
23	D O	20.1	—	7.8	8.6	320	CR 10-10-96 0900
	D R	20.1	—	7.8	8.6	275	CR 10-10-96 1000
24	A	20.1	—	7.8	8.5	—	MO 10-11-96 0745
25	B	20.1	—	7.7	8.4	—	MO 10-12-96 0945
26	C	20.5	—	7.7	8.5	—	MO 10-13-96 1045
27	D	19.5	—	7.7	8.9	—	CR 10-14-96 1200
28	A	19.6	—	7.8	8.9	—	MO 10-15-96 0800
INSTR/METHOD:		FS S	TNTC	SA 290A	DO 1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 490087-0630

SEDIMENT: HRBS004 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.1	—	8.0	8.2	375	CR 09-17-96, 1300
1	B	19.8	—	8.0	8.3	—	CR 09-18-96 1200
2	C:O	19.5	—	7.8	8.7	—	CR 09-19-96 1330
	C:R	—	—	—	—	—	—
3	D O	19.2	—	7.9	8.6	400	CR 09-20-96 1000
	D R	19.7		8.1	8.2	330	CR 09-20-96 1200
4	A	19.5	—	7.9	8.0	—	CR 09-21-96 1100
5	B	19.6	—	7.8	7.8	—	CR 09-22-96 1200
6	C O	19.8	—	7.7	8.5	370	CR 09-23-96 1100
	C R	20.2		8.0	8.7	310	1200
7	D	18.9	—	8.0	8.6	—	CR 09-24-96 0830
8	A	19.2	—	7.8	8.7	—	CR 09-25-96 0900
9	B O	20.8	—	8.0	8.7	335	CR 9-26-96 1000
	B R	21.0	—	8.1	8.6	290	CR 9-26-96 1130
10	C	20.7	—	7.7	8.6	—	CR 9-27-96 0900
11	D	20.8	—	7.8	8.5	—	MO 9-28-96 1230
12	A	20.9	—	7.8	8.6	—	MO 9-29-96 1045
13	B O	20.6	—	7.9	8.8	325	CR 09-30-96 1315
	B R	20.6		8.1	9.0	280	1430
INSTR/METHOD:		FS 5	TITR	SB 260A	DO1	SC3	—

KEY: TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FOR T SHERMAN PROJECT NUMBER: 490208 7-0630

SEDIMENT: HPBSD04 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
14	C	19.6	—	7.7	8.6	—	CR 10-01-96 1000
15	D	19.9	—	7.8	8.9	—	CR 10-02-96 1000
16	A:O	20.6	—	7.8	8.5	325	CR 10-03-96 1300
	A:R	21.0	—	8.0	8.5	280	CR 10-03-96 1400
17	B	20.9	—	7.9	8.4	—	MO 10-04-96 1100
18	C	20.8	—	7.9	8.5	—	CR 10-05-96 1200
19	D	20.8	—	8.0	8.6	—	CR 10-06-96 1130
20	A:O	21.0	—	8.0	8.5	310	CR 10-07-96 0900
	A:R	20.8		8.3	8.5	260	1000
21	B	20.1	—	7.8	8.7	—	MO 10-08-96 1400
22	C	20.0	—	7.7	8.6	—	MO 10-09-96 1315
23	D O	20.1	—	7.8	8.6	290	CR 10-10-96 0900
	D R	20.1	—	7.8	8.6	260	CR 10-10-96 1000
24	A	20.1	—	7.6	8.4	—	MO 10-11-96 0745
25	B	20.1	—	7.7	8.5	—	MO 10-12-96 0945
26	C	20.5	—	7.7	8.5	—	MO 10-13-96 1045
27	D	19.5	—	7.8	8.8	—	CR 10-14-96 1200
28	A	19.6	—	7.9	8.9	—	MO 10-15-96 0800
INSTR/METHOD:		YSI	Titr	SA 200A	DO-1	Sct-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FT SHERIDAN PROJECT NUMBER: 490208.7-0630

SEDIMENT: HRBSD05 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	—	8.0	8.2	360	CR 09-17-96 1300
1	B	19.7	—	8.0	8.2	—	CR 09-18-96 1200
2	C:O	19.5	—	7.8	8.7	—	CR 09-19-96 1330
	C R	—	—	—	—	—	—
3	D O D R	19.2 19.7	—	7.8 8.1	8.6 8.2	395 325	CR 09-20-96 1000 CR 09-20-96 1200
4	A	19.5	—	7.9	8.0	—	CR 09-21-96 1100
5	B	19.6	—	7.9	8.0	—	CR 09-22-96 1200
6	C O C R	19.8 20.2	—	7.7 8.1	8.5 8.7	360 310	CR 09-23-96 1100 1200
7	D	19.8	—	8.1	8.6	—	CR 09-24-96 0830
8	A	19.1	—	7.8	8.6	—	CR 09-25-96 0900
9	B O	20.8	—	8.0	8.6	340	CR 9-26-96 1000
	B R	21.0	—	8.1	8.7	300	CR 9-26-96 1130
10	C	20.7	—	7.8	8.7	—	CR 9-27-96 0900
11	D	20.8	—	7.9	8.6	—	MO 9-28-96 1230
12	A	20.9	—	7.8	8.7	—	MO 9-29-96 1045
13	B O B R	20.6 20.6	—	7.9 8.1	8.8 9.0	325 280	CR 09-30-96 1315 1430
INSTR/METHOD:		FS-5	Titr	SB 29 CA	DO-1	SC3	—

KEY
TEMP=TEMPERATURE (C) SAL=SALINITY (ppt) HARD=HARDNESS (mg/L)
DO=DISSOLVED OXYGEN (ppm) COND=CONDUCTIVITY (umhos) TECH=TECHNICIAN
O="OLD" H20 R=RENEWED H20

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET -- WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 490287-6630

SEDIMENT: HRBSD05 TEST SPECIES: Hyalella

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
14	C	19.6	—	7.9	8.6	—	CR 10-01-96 1000
15	D	19.9	—	7.9	8.9	—	CR 10-02-96 1000
16	A.O	20.5	—	7.9	8.5	335	CR 10-03-96 1300
	A:R	21.0	—	8.0	8.5	280	CR 10-03-96 1400
17	B	20.9	—	8.0	8.4	—	MO 10-04-96 1100
18	C	20.8	—	8.0	8.5	—	CR 10-05-96 1200
19	D	20.8	—	7.9	8.5	—	CR 10-06-96 1130
20	A O	21.0	—	7.9	8.5	320	CR 10-07-96 0900
	A R	20.9		8.3	8.5	275	1000
21	B	20.1	—	7.9	8.7	—	MO 10-08-96 1400
22	C	20.0	—	7.8	8.7	—	MO 10-09-96 1315
23	D O	20.1	—	7.8	8.6	300	CR 10-10-96 0900
	D R	20.1	—	7.9	8.6	260	CR 10-10-96 1000
24	A	20.1	—	7.8	8.3	—	MO 10-11-96 0745
25	B	20.1	—	7.7	8.4	—	MO 10-12-96 0945
26	C	20.5	—	7.7	8.6	—	MO 10-13-96 1045
27	D	19.5	—	7.7	8.8	—	CR 10-14-96 1200
28	A	19.5	—	7.8	8.8	—	MO 10-15-96 0800
INSTR/METHOD:		FS 5	T&r	SA 29-A	DO 1	Sal-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 490287-0630

SEDIMENT: BRISSDC1 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.0	=	7.9	8.2	365	CR 09-17-96 1300
1	B	19.6	—	8.0	8.3	—	CR 09-18-96 1200
2	C:O	19.4	—	7.8	8.6	—	CR 09-19-96 1330
	C:R	—	—	—	—	—	—:
3	D	19.1 19.8	—	7.8 8.1	8.6 8.3	395 310	CR 09-20-96 1000 CR-09-20-96 1200
4/5	A	19.5	—	7.9	8.0	—	CR 09-21-96 1100
	B	19.5	—	7.8	8.0	—	CR 09-22-96 1200
6	C_R^O	19.8 20.2	—	7.6 8.1	8.5 8.7	355 300	CR 09-23-96 1100 1200
7	D	18.8	—	8.1	8.6	—	CR 09-24-96 0830
8	A	19.0	—	7.8	8.7	—	CR 09-25-96 0900
9	B_O	20.8	—	8.1	8.7	335	CR 9-26-96 1000
	B_R	21.0	—	8.1	8.6	300	CR 9-26-96 1130
10	C	20.7	—	7.6	8.7	—	CR 9-27-96 0900
11	D	20.8	—	7.7	8.5	—	MO 9-28-96 1230
12	A	20.8	—	7.8	8.7	—	MO 9-29-96 1045
13	B_R^O	20.5 20.6	—	8.0 8.1	8.8 9.0	340 300	CR 09-30-96 1315 1430
INSTR/METHOD:		YS-5	THR	SB 29CA	DO-1	BT3	—

KEY
TEMP=TEMPERATURE (C) SAL=SALINITY (ppt) HARD=HARDNESS (mg/L)
DO=DISSOLVED OXYGEN (ppm) COND=CONDUCTIVITY (umhos) TECH=TECHNICIAN
O="OLD" H20 R=RENEWED H20

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Fort Sheridan PROJECT NUMBER: 4902087-0630

SEDIMENT: BRBSD01 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
14	C	19.5	—	7.9	8.6	—	CR 10-01-96 1000
15	D	19.8	—	7.8	8.8	—	CR 10-02-96 1000
16	A;O	20.5	—	8.0	8.4	360	CR 10-03-96 1300
	A;R	20.9	—	8.1	8.5	290	CR 10-03-96 1400
17	B	20.8	—	7.9	8.5	—	MO 10-04-96 1100
18	C	20.7	—	7.9	8.5	—	CR 10-05-96 1200
19	D	20.6	—	8.0	8.6	—	CR 10-06-96 1130
20	A O	21.0	—	8.1	8.5	340	CR 10-07-96 0900
	A R	20.8		8.4	8.5	280	1000
21	B	20.1	—	7.8	8.6	—	MO 10-08-96 1400
22	C	19.9	—	7.9	8.7	—	MO 10-09-96 1315
23	D O	20.6	—	7.8	8.6	340	CR 10-10-96 0900
	D R	20.1	—	7.8	8.6	285	CR 10-10-96 1000
24	A	20.1	—	7.8	8.5	—	MO 10-11-96 0745
25	B	20.1	—	7.8	8.5	—	MO 10-12-96 0945
26	C	20.4	—	7.8	8.4	—	MO 10-13-96 1045
27	D	19.4	—	7.8	8.8	—	CR 10-14-96 1200
28	A	19.5	—	7.8	8.8	—	MO 10-15-96 0800
INSTR/METHOD:		PS S	Titr	SA 290A	DO 1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

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Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 49-2087-0230

SEDIMENT: BRBSD02 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	21.1	—	8.0	8.2	330	CR 09-17-96 1300
1	B	19.5	—	8.0	8.3	—	CR 0918-96 1200
2	C:O	19.3	—	7.9	8.6	—	CR 09-19-96 1330
	C:R	—	—	—	—	—	—
3	D	19.1 19.7	—	7.8 8.1	8.5 8.4	350 310	CR 09-20-96 1000 CR 09-20-96 1200
4	A	19.5	—	7.9	8.0	—	CR 09-21-96 1100
5	B	19.4	—	7.9	7.8	—	CR 09-22-96 1200
6	C^{O}_{R}	19.7 20.2	—	7.6 8.0	8.6 8.6	290 310	CR 09-23-96 1100 1200
7	D	18.8	—	8.1	8.6	—	CR 09-24-96 0830
8	A	19.1	—	7.8	8.7	—	CR 09-25-96 0900
9	B_O	20.7	—	8.1	8.7	290	CR 9-26-96 1000
	B_R	21.0	—	8.1	8.6	285	CR 9-26-96 1130
10	C	20.6	—	7.8	8.7	—	CR 9-27-96 0900
11	D	20.7	—	7.8	8.5	—	MO 9-28-96 1230
12	A	20.8	—	7.7	8.6	—	MO 9-29-96 1015
13	B^{O}_{R}	20.5 20.6	—	8.0 8.1	8.8 9.0	260 260	CR 09-30-96 1345 1450
INSTR/METHOD:		FS5	T.Thr	SA 20CA	DO-1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

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ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Fort Sheridan PROJECT NUMBER: 490208?-0630

SEDIMENT: SRBSD01 TEST SPECIES: H. azteca

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
14	C	19.5	—	7.8	8.6	—	CR 10-01-96 1000
15	D	19.8	—	7.9	8.8	—	CR 10-02-96 1000
16	A O	20.2	—	8.0	8.4	330	CR 10-03-96 1300
	A R	20.9	—	8.1	8.5	285	CR 10-03-96 1400
17	B	20.8	—	8.0	8.5	—	MO 10-04-96 1100
18	C	20.6	—	8.0	8.5	—	CR 10-05-96 1200
19	D	20.5	—	7.9	8.6	—	CR 10-06-96 1130
20	A O	21.0	—	8.1	8.5	310	CR 10-07-96 0900
	A R	20.8		8.3	8.5	270	1000
21	B	20.1	—	7.9	8.7	—	MO 10-08-96 1400
22	C	19.9	—	7.8	8.6	—	MO 10-09-96 1315
23	D O	19.9	—	7.8	8.5	290	CR 10-10-96 0900
	D R	19.9	—	7.9	8.6	265	CR 10-10-96 1000
24	A	20.1	—	7.8	8.5	—	MO 10-11-96 0945
25	B	20.1	—	7.8	8.4	—	MO 10-12-96 0945
26	C	20.4	—	7.8	8.5	—	MO 10-13-96 1945
27	D	19.3	—	7.8	8.7	—	CR 10-14-96 1200
28	A	19.4	—	7.8	8.8	—	MO 10-15-96 0800
INSTR/METHOD:		FS 5	Titr	SA 290A	DO 1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

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PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 96

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 41902087-0630

TEST SUBSTANCE: SEDIMENTS TEST SPECIES: H. azteca

DATE: 09-17-96 TIME: 1500 DATA BY: CR

# LOADED	CONTROL	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
REP	—	JR-1	JR2	JR3	JR4	JR5	HR1	HR2	HR3	HR4	HR5	BR-1	BR-2	SR-1	
A	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
B	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
C	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
D	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 09-18-96 TIME: 1200 DATA BY: CR

	CONTROL	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR1	HR2	HR3	HR4	HR5	BR-1	BR-2	SR-1	
A	∩	∩	∩	∩	∩	∩	∩	5AS or H2O	∩	∩	∩	2AS or H2O	∩	1AS	
B	EMR 2AS	∩	∩	∩	∩	∩	∩	1AS or H2O	∩	∩	∩	1AS or H2O	∩	∩	
C	EMR 1AS	∩	∩	∩	∩	∩	∩	1AS of H2O	1AS of H2O	∩	∩	∩	∩	∩	
D	EMR 2AS	∩	∩	∩	∩	∩	∩	1AS of H2O	∩	∩	∩	∩	∩	∩	
E	* WTCR 09-18-96	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 09-19-96 TIME: 1400 DATA BY: CR

	CONTROL	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
REP	-	JR-1	JR-2	JR 3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1	
A	∩	∩	∩	∩	∩	∩	∩	2AS	∩	∩	∩	1AS	1AS	∩	
B	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	
C	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	
D	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 96

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 4902087-0630

TEST SUBSTANCE: SEDIMENTS TEST SPECIES: H. azteca

DATE: 09-20-96 TIME: 1015 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	—	JR1	JR2	JR3	JR4	JR5	HR1	HR2	HR3	HR4	HR5	BR1	BR2	SR1	—
A	6EMR	∩	1AS	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
B	7EMR	∩	2EMR	∩	∩	∩	∩	1AS	∩	∩	∩	∩	∩	∩	—
C	7EMR	∩	∩	∩	∩	∩	∩	∩	1EMR	∩	∩	∩	∩	∩	—
D	6EMR	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 9/21/96 TIME: 1215 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	—	JR1	JR2	JR3	JR4	JR5	HR1	HR2	HR3	HR4	HR5	BR1	BR2	SR1	—
A	∩	∩	∩	∩	∩	1AS	∩	∩	∩	1EMR	∩	∩	∩	∩	—
B	∩	1AS	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
C	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
D	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 9/22/96 TIME: 1230 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	—	JR1	JR2	JR3	JR4	JR5	HR1	HR2	HR3	HR4	HR5	BR1	BR2	SR1	—
A	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
B	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
C	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
D	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 96

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 4902087-0630

TEST SUBSTANCE: Sediments TEST SPECIES: H. azteca

DATE: 09-23-96 TIME: 1200 DATA BY: CR

	CONTROL		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—		JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	∩	[illegible]	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
B	3 are	—	∩	∩	∩	∩	∩	∩	IAS	∩	∩	∩	∩	∩	∩
C	2 are	—	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
D	∩	—	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 09-24-96 TIME: 0900 DATA BY: CR

	CONTROL		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—		JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	∩	—	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
B	∩	—	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
C	∩	—	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
D	∩	—	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 09-25-96 TIME: 0900 DATA BY: CR

	CONTROL		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—		JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	∩		∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
B	∩		∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
C	∩		∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
D	∩		∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
E	—		—	—	—	—	—	—	—	—	—	—	—	—	—

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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Gainesville, Florida

PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 95

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 4902087-0630

TEST SUBSTANCE: Sediment TEST SPECIES: H. azteca

DATE: 09-26-96 TIME: 1200 DATA BY: CL

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	N	N	N	N	N	N	N	2AS	N	N	N	2 WORMS NOTED	N	N
B	2EMR	N	N	N	N	N	N	N	N	N	N	3 WORMS NOTED	N	N
C	N	N	N	N	N	N	N	N	N	2EMR	N	N	N	N
D	N	N	N	N	N	N	N	N	N	N	N	N	N	N
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 09-27-96 TIME: 0900 DATA BY:

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR3	HR-4	HR-5	BR-1	BR-2	SR-1
A	N	N	N	N	N	N	N	2AS	N	N	N	N	N	N
B	N	N	N	N	N	N	N	N	N	N	N	N	N	D
C	N	N	N	N	N	N	N	N	N	N	N	N	N	N
D	N	N	N	N	N	N	N	N	N	N	N	N	N	N
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 9-28-96 TIME: 1245 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	2	2	2	2	2	2	2	2	2	2	2	2	2	2
B	2	2	2	2	2	2	2	2	2	2	2	2	2	2
C	2	2	2	2	2	2	2	2	2	2	2	2	2	2
D	2	2	2	2	2	2	2	2	2	2	2	2	2	2
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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Gainesville, Florida

PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 9

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: Fort Sheridan PROJECT NUMBER: 4902087-030

TEST SUBSTANCE: Sediment TEST SPECIES: H. azteca

DATE: 9-29-96 TIME: 1045 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	–	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1	–
A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	/
B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	–
C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	–
D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	–
E	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

DATE: 9-30-96 TIME: 1400 DATA BY: CK

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	–	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1	–
A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	–
B	N	N	N	N	N	N	N	N	N	N	N	N	N	N	–
C	N	N	N	N	N	N	N	N	N	N	N	N	N	2EMR	–
D	N	N	N	N	N	N	N	N	N	N	N	N	N	N	–
E	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

DATE: 10-01-96 TIME: 1030 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	–	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR2	SR-1	–
A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	–
B	N	N	N	N	N	N	N	N	N	N	N	N	N	N	–
C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	–
D	N	N	N	N	N	N	N	N	N	N	N	N	N	N	–
E	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 95

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: FORT SHERIDAN PROJECT NUMBER: 490287-0630

TEST SUBSTANCE: SEDIMENTS TEST SPECIES: Hyalella azteca

DATE: 10-02-96 TIME: 1030 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
B	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	2EMR	∩	∩
C	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
D	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 10-03-96 TIME: 1400 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	5EMR	1EMR	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
B	2EMR	∩	∩	∩	∩	∩	∩	1EMR	∩	1EMR	∩	∩	∩	∩
C	3EMR	2EMR	∩	∩	∩	∩	∩	1EMR	∩	∩	∩	∩	1EMR	∩
D	4EMR	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 10-04-96 TIME: 1120 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	1EMR	2	2	2	2	2	2	2	2	2	2	2	2	2
B	2	2	2	2	2	2	2	2	2	2	2	2	1EMR	2
C	2	1EMR	2	2	2	2	2	2	2	2	2	2	2	2
D	1EMR	2	2	2	2	2	2	1EMR	2	2	2	2	2	2
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 95

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: Ft. Sheridan PROJECT NUMBER: 4902087-0630-3100

TEST SUBSTANCE: Sediment TEST SPECIES: H. azteca

DATE: 10/05/96 TIME: 1215 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1	
A	2 EMR	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	2 EMR	∩	∩	—
B	∩	∩	∩	∩	∩	∩	∩	AS	∩	∩	∩	∩	∩	∩	—
C	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
D	3 EMR	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	/

DATE: 10/06/96 TIME: 1200 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1	—
A	∩	∩	∩	∩	∩	∩	1 EMR	∩	∩	∩	∩	∩	∩	∩	—
B	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
C	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
D	1 EMR	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	—
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 10/07/96 TIME: 1000 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT	
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1	
A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	—
B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	—
C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	—
D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	—
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 95

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: Ft. Sheridan PROJECT NUMBER: 4902087-0630-3100

TEST SUBSTANCE: Sediment TEST SPECIES: H. azteca

DATE: 10/08/96 TIME: 1415 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	N	N	N	N	N	N	2 EMR	N	N	N	N	N	N	N
B	1 EMR	N	N	N	N	N	N	N	N	N	N	N	N	N
C	N	N	N	N	N	N	N	N	N	N	N	N	N	N
D	1 EMR	N	N	N	N	N	N	N	N	N	N	N	N	N
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 10/09/96 TIME: 1330 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	1 EMR	2 EMR	N	N	N	N	1 EMR	N	N	N	N	N	N	N
B	N	N	N	N	N	N	1 EMR	N	N	N	N	N	N	N
C	5 EMR	1 EMR	N	N	N	N	2 EMR 1 AMP	1 EMR	N	N	N	N	N	N
D	2 EMR	N	N	1 EMR	N	N	N	N	1 EMR	N	N	N	N	N
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 10/10/96 TIME: 1030 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	7 EMR	5 EMR	N	N	N	N	4 EMR	3 EMR	3 EMR	6 EMR	2 EMR	9 EMR	N	N
B	6 EMR	2 EMR	N	N	3 EMR 1 AMP	N	4 EMR	3 EMR	4 EMR	1 AMP 4 EMR	1 AMP 4 EMR	6 EMR	N	N
C	7 EMR	3 EMR	N	N	N	N	3 EMR	2 EMR	1 AMP 5 EMR	3 EMR	2 EMR	1 EMR	N	N
D	9 EMR	2 EMR	N	N	N	N	1 AMP 4 EMR	3 EMR	1 AMP 6 EMR	5 EMR	3 EMR	8 EMR	N	N
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 9

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: Ft. Sheridan PROJECT NUMBER: 4902087-0630-3100

TEST SUBSTANCE: Sediment TEST SPECIES: H. azteca

DATE: 10/11/96 TIME: 0800 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	2 EMR	1 EMR	2	2	2	2	2	2	2 EMR	2	2	1 EMR	2	2
B	1 EMR	2	2	2	2	2	2	2	1 EMR	2	2	2	2	2
C	1 EMR	1 EMR	2	2	2	2	1 EMR	2	2	2	2	2	2	2
D	2 EMR	2 EMR	2	2	2	2	2	2	2	2	2	2	2	2
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 10/12/96 TIME: 0945 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	1 EMR	2	2	2	2	2	2	2	2	2	2	2	2	2
B	2	2	2	2	2	2	2	2	1 EMR	2	2	2	2	2
C	1 EMR	1 EMR	2	2	2	2	2	2	2	2	2	2	2	2
D	2	1 EMR	2	2	2	2	2	2	2	2	2	2	2	2
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 10/13/96 TIME: 1100 DATA BY: MO

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	2	2	2	2	2	2	2	2	2	2	2	2	2	2
B	1 EMR	2	2	2	2	2	2	2	2	2	2	2	2	2
C	1 EMR	1 EMR	2	2	2	2	2	2	2 EMR	2	2	2	2	2
D	2	2	2	2	2	2	2	2	1 EMR	2	2	2	2	2
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

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Gainesville, Florida

PAGE:
ESE QA FORM: 104
EFFECTIVE: JULY 95

SEDIMENT DAILY OBSERVATION SHEET

SPONSOR: Ft Stericker PROJECT NUMBER: 4902087-0630

TEST SUBSTANCE: Sediment TEST SPECIES: H. azteca

DATE: 10/14/96 TIME: 1200 DATA BY: CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
B	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
C	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
D	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: 10/15/96 (DAY 28) TIME: DATA BY: MO/CR

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP	—	JR-1	JR-2	JR-3	JR-4	JR-5	HR-1	HR-2	HR-3	HR-4	HR-5	BR-1	BR-2	SR-1
A	18 Alive, 2 NF, 3 Amp	20A 6Amp	18A 2 AMP	20A 5AMP	19A 3 AMP	19A 3AMP	18A 1 AMP	17A 1 AMP	19A 3 AMP	17A 1 AMP	20A 3AMP	20A 2 AMP	16A 2 AMP	20A 3 AMP
B	19 Alive, 1 NF, 0 Amp	20A 3 AMP	19A 1NF, 1 AMP	19A 1NF 5AMP	18A 2NF 4AMP	20A, 2 4 AMP	20A 4 AMP	18A 2 AMP	18A 2 AMP	19A 2 AMP	20A 3 AMP	18A 1 AMP	19A 1 AMP	20A 1 AMP
C	19 Alive, 2 1NF, 1 Amp	19A 1NF, 5AMP	18A 2 AMP	20A 5 AMP	20A 6 AMP	16A 2 AMP	20A 1 AMP, 1	17A 2 AMP	19A 1 AMP	20A 1 AMP	20A 2 AMP	19A 2 AMP	20A 1 AMP	20A 3 AMP
D	19 Alive, 1NF 1 Amp	20A, 2 6 AMP	20A 6 AMP	20A 4 AMP	18A 3 AMP	18A 3 AMP	20A 4 AMP	20A 3 AMP	20A 3 AMP	17A 16 3 AMP	20A 3 AMP	20A 3 AMP	19A 2 AMP	18A 0 AMP
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—

DATE: TIME: DATA BY:

	CONTROL	SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT		SEDIMENT
REP														
A														
B														
C														
D														
E														

AV = AVOIDANCE EMR = EMERGENCE AS = AT SURFACE D = DEAD N = NONE

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN | Test Material: SEDIMENT | Treatment: CONTROL

Project Number: 1A9C2C87-C630 | Species: H. azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	Pan 1	4.2	0.9210	—	0.9272	—	0.0062
2			3.5					
3			4.2					
4			4.0					
5			3.1					
6			3.5					
7			3.9					
8			3.5					
9			4.0					
10			3.6					
11			3.5					
12			3.5					
13			3.8					
14			3.8					
15			4.0					
16			3.8					
17			3.9					
18			3.4					

Mean	3.73	Loading (g/l)	Mean	—	0.34 mg
Std. Dev.	0.30		Std. Dev.	—	—
Range	3.1 - 4.2	NA	Range	—	—

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: SEDIMENT	Treatment: Control
Project Number: 190287-0630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	Am 2	3.5	0.9192	—	0.9254	—	0.0062
2			3.7					
3			3.2					
4			3.7					
5			3.9					
6			3.9					
7			3.7					
8			3.5					
9			4.5					
10			3.6					
11			3.7					
12			4.2					
13			3.7					
14			3.5					
15			3.8					
16			3.3					
17			3.7					
18			3.8					
19			4.5					
Mean			3.76				—	0.33 mg
Std. Dev.			0.34				—	—
Range			3.2 - 4.5				—	—

Loading (g/l): NA

By: CL	Date: 12/12/96	Calculator Used: TI-60
Form: LOADING	Meas. Dev.: Leica macroscope	Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FCRT SHERIDAN	Test Material: SEDIMENT	Treatment: CONTROL
Project Number: 49C2087-C630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	Pan 3	4.2	0.9132	—	0.9202	—	0.0070
2			4.9					
3			4.4					
4			3.8					
5			4.0					
6			3.6					
7			3.7					
8			4.2					
9			4.0					
10			4.1					
11			4.5					
12			3.1					
13			4.0					
14			4.2					
15			4.0					
16			4.1					
17			3.8					
18			4.3					
19			4.4					
Mean			4.07				—	0.37 mg
Std. Dev.			0.38				—	—
Range			3.1 – 4.9				—	—

Loading (g/l): NA

By: CL	Date: 10/21/96	Calculator Used: TI-60
Form: LOADING	Meas. Dev.: Leica micrometer	Balance Used: SP18C

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SUPERFUND	Test Material: SEDIMENT	Treatment: CONTROL
Project Number: 4AC207-C630	Species: H. AZTECA	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	Pan 4	3.3	0.9202	—	0.9263	—	0.0061
2			4.0					
3			3.8					
4			4.5					
5			3.6					
6			3.8					
7			3.7					
8			3.2					
9			3.8					
10			4.4					
11			3.4					
12			3.8					
13			4.2					
14			4.0					
15			3.9					
16			3.1					
17			3.4					
18			3.6					
19			2.7					
Mean			3.69				—	0.32 mg
Std. Dev.			0.45				—	—
Range			2.7-4.5				—	—

Loading (g/l)
NA

By: CL | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica Micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: ____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: ERT SITE 12 LOAD | Test Material: Sediment | Treatment: JRBSD01

Project Number: 49026871-0630 | Species: H azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	Pan 5	4.5	0.9214	—	0.9313	—	0.0099
2			4.6					
3			3.5					
4			4.0					
5			4.9					
6			3.5					
7			4.0					
8			3.4					
9			3.0					
10			2.4					
11			4.9					
12			3.8					
13			4.0					
14			3.6					
15			4.6					
16			3.5					
17			4.3					
18			3.5					
19			3.8					
20			3.5					
Mean			3.87				—	0.50 mg
Std. Dev.			0.64				—	—
Range			2.4 - 4.9				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: R Sheridan	Test Material: Sediment	Treatment: JRBSDC1
Project Number: 490208720630	Species: H azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	Pan 6	3.7	0.9212	—	0.9301	—	0.0089
2			4.2					
3			4.8					
4			3.7					
5			3.3					
6			3.6					
7			4.2					
8			3.7					
9			3.6					
10			3.5					
11			3.9					
12			3.2					
13			3.7					
14			4.3					
15			3.8					
16			4.1					
17			4.2					
18			3.5					
19			4.0					
20			3.9					
Mean			3.85				—	0.45 mg
Std. Dev.			0.38				—	—
Range			3.2 - 4.8				—	—

Loading (g/l): NA

By: CR	Date: 10/21/96	Calculator Used: TI-60
Form: LOADING	Meas. Dev.: Leica Micrometer	Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FCR-T SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 1902087-0630	Species: H azteca	JRBSOC 1

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	Pan 7	3.8	0.9256	—	0.9355	—	0.0099
2			3.7					
3			4.3					
4			4.5					
5			3.7					
6			3.7					
7			4.0					
8			3.8					
9			3.7					
10			4.7					
11			4.5					
12			3.8					
13			4.0					
14			3.5					
15			4.4					
16			4.0					
17			4.5					
18			3.4					
19			4.0					
Mean			4.00				—	0.52 mg
Std. Dev.			0.38				—	—
Range			3.4 - 4.7				—	—

Loading (g/l): NA

By: CR | Date: 4/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 960087-C120	Species: H azteca	JRBSD01

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	Am 8	4.5	0.9338	—	0.9449	—	0.0111
2			4.1					
3			4.3					
4			3.8					
5			4.8					
6			2.8					
7			3.5					
8			4.2					
9			3.6					
10			3.8					
11			3.6					
12			4.2					
13			4.4					
14			3.5					
15			4.3					
16			3.6					
17			3.4					
18			4.0					
19			3.9					
20			4.8					
Mean			3.96				—	0.56 mg
Std. Dev.			0.50				—	—
Range			2.8 - 4.8				—	—

Loading (g/l)
NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica microcreter | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 190287-C63C	Species: H azteca	JRBSD02

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
2	A	9	4.8	0.9268	—	0.9333	—	0.0065
2			3.8					
3			3.7					
4			3.3					
5			3.9					
6			3.4					
7			3.8					
8			3.9					
9			3.8					
10			3.6					
11			3.8					
12			3.6					
13			3.2					
14			3.9					
15			3.7					
16			3.9					
17			3.5					
18			3.7					

Mean	3.74	Loading (g/l)	Mean	—	0.36 mg
Std. Dev.	0.34	NA	Std. Dev.	—	—
Range	3.2-4.8		Range	—	—

By: CR | Date: 10/21/96 | Calculator Used: TI 60

Form: LOADING | Meas. Dev.: Leica microm | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: ICRT SHERIDAN	Test Material: Sediment	Treatment: JRBSDC2
Project Number: 192057-0030	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	12	2.6	0.9180	—	0.9291	—	0.0111
2			3.9					
3			4.0					
4			4.5					
5			4.2					
6			4.1					
7			3.8					
8			3.8					
9			3.7					
10			3.7					
11			3.6					
12			4.0					
13			4.8					
14			4.2					
15			3.6					
16			4.2					
17			4.4					
18			3.9					
19			5.0					
20			3.9					
Mean			4.00				—	0.56 mg
Std. Dev.			0.50				—	—
Range			2.6 - 5.0				—	—

Loading (g/l)	Mean	Std. Dev.	Range
NA			

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: ICRT SHERIDAN	Test Material: Sediment	Treatment: JRBSD03
Project Number: 49CB0870630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	13	4.5	0.9180	—	0.9283	—	0.0103
2			4.8					
3			4.1					
4			4.5					
5			5.0					
6			4.6					
7			3.8					
8			4.0					
9			4.4					
10			3.5					
11			4.3					
12			4.0					
13			3.5					
14			4.2					
15			3.9					
16			4.3					
17			4.1					
18			4.3					
19			4.0					
20			3.5					
Mean			4.17				—	0.52 mg
Std. Dev.			0.41				—	—
Range			3.5 - 5.0				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP 180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: ~~KRT~~ SHERIDAN	Test Material: Sediment	Treatment: JB.BSD03
Project Number: 4902087-0630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	14	4.5	0.9174	—	0.9282	—	0.0108
2			3.4					
3			3.9					
4			3.5					
5			3.9					
6			3.7					
7			4.2					
8			4.4					
9			4.1					
10			4.6					
11			4.0					
12			4.0					
13			4.1					
14			4.0					
15			4.0					
16			4.2					
17			3.3					
18			4.2					
19			4.2					
Mean			4.01				—	0.57 mg
Std. Dev.			0.35				—	—
Range			3.3 - 4.6				—	—

Loading (g/l): NA

By: CR	Date: 10/21/96	Calculator Used: TI-60
Form: LOADING	Meas. Dev.: Leica micrometer	Balance Used: SP-180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 490287-030	Species: H. azteca	JRBSD03

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	15	3.8	0.9185	—	0.9284	—	0.0099
2			3.9					
3			4.5					
4			4.5					
5			4.4					
6			4.0					
7			4.0					
8			4.5					
9			3.9					
10			4.5					
11			3.3					
12			4.3					
13			4.3					
14			4.1					
15			4.0					
16			4.4					
17			3.0					
18			4.8					
19			3.5					
20			3.6					

Mean	4.07	Loading (g/l)	Mean	—	0.50 mg
Std. Dev.	0.46		Std. Dev.	—	—
Range	3.0 - 4.8	NA	Range	—	—

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FT. SHERIDAN | Test Material: Sediment | Treatment: JRBSD03

Project Number: 4222681020 | Species: H. azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	16	3.9	0.9172	—	0.9270	—	0.0098
2			3.5					
3			3.9					
4			4.0					
5			3.9					
6			3.8					
7			4.0					
8			4.3					
9			4.5					
10			3.8					
11			4.5					
12			4.0					
13			4.0					
14			3.0					
15			3.8					
16			3.9					
17			3.9					
18			3.8					
19			3.8					
20			4.0					
Mean			3.92				—	0.49 mg
Std. Dev.			0.32				—	—
Range			3.0 - 4.5				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page:
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: CERT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 490208 7 0630	Species: H azteca	JRBS004

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	?	4?	0.9266	—	0.9339	—	0.0073
2			3.1					
3			4.8					
4			4.3					
5			3.5					
6			4.2					
7			3.6					
8			4.2					
9			3.9					
10			3.4					
11			3.4					
12			4.0					
13			3.8					
14			3.7					
15			4.4					
16			3.8					
17			4.2					
18			3.5					
19			4.5					
Mean			3.92				—	0.38 mg
Std. Dev.			0.44				—	—
Range			3.1 - 4.8				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP-180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment: JRBSD04
Project Number: 190205-7630	Species: H azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	18	3.8	0.9274	—	0.9364	—	0.0090
2			4.6					
3			4.7					
4			3.7					
5			4.6					
6			3.5					
7			4.0					
8			3.4					
9			3.8					
10			3.8					
11			3.9					
12			4.2					
13			4.4					
14			4.3					
15			3.5					
16			3.9					
17			4.2					
18			4.0					

Mean	4.02	Loading (g/l)	Mean	—	0.50 mg
Std. Dev.	0.39		Std. Dev.	—	—
Range	3.4 – 4.6	NA	Range	—	—

By: AR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica microrater | Balance Used: SP-180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: EPA SHERIDAN	Test Material: Sediment	Treatment: JEBSD04
Project Number: 4902087C630	Species: H. Azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	19	4.5	0.9273	—	0.9346	—	0.0073
2			3.5					
3			4.3					
4			4.6					
5			3.6					
6			3.9					
7			4.5					
8			4.2					
9			4.5					
10			4.2					
11			3.8					
12			3.8					
13			3.5					
14			3.4					
15			3.9					
16			3.7					
17			3.5					
18			4.6					
19			3.9					
20			4.3					

Mean	4.01	Loading (g/l)	Mean	—	0.37 mg
Std. Dev.	0.41	NA	Std. Dev.	—	—
Range	3.4 - 4.6		Range	—	—

By: C.R. Date: 10/21/96 Calculator Used: TI-60

Form: LOADING Meas. Dev.: Leica microscope Balance Used: SP80

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment: JRBSD04
Project Number: 4402087-0630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	20	4.1	0.9261	—	0.9325	—	0.0064
2			3.8					
3			3.5					
4			4.4					
5			4.0					
6			4.2					
7			3.4					
8			4.0					
9			3.1					
10			3.8					
11			4.0					
12			4.9					
13			4.5					
14			3.6					
15			4.1					
16			4.0					
17			3.3					
18			3.2					

Mean	3.88	Loading (g/l)	Mean	—	0.36 mg
Std. Dev.	0.47		Std. Dev.	—	—
Range	3.1 – 4.9	NA	Range	—	—

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: EPT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 490287-C630	Species: H. azteca	JRBSD05

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	21	4.2	0.9236	—	~~0.9389~~ mo 10/23/96	—	~~0.0153~~ mo 10/23/96
2			3.7			0.9327		0.0091
3			3.5					
4			3.9					
5			4.4					
6			4.3					
7			4.0					
8			3.2					
9			3.3					
10			3.5					
11			3.0					
12			4.2					
13			4.1					
14			4.2					
15			4.5					
16			4.0					
17			4.5					
18			3.2					
19			3.4					

Mean	3.85	Loading (g/l)	Mean	—	0.48 mg
Std. Dev.	0.48		Std. Dev.	—	—
Range	3.0 – 4.5	NA	Range	—	—

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP-180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment: JRBSD05
Project Number: 4902087-C630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	22	3.3	0.9306	—	~~0.9347~~ MC 10/22/96	—	0.0083
2			3.7			0.9389		
3			3.8					
4			3.9					
5			3.4					
6			5.0					
7			3.3					
8			4.3					
9			3.3					
10			3.9					
11			4.4					
12			3.7					
13			3.0					
14			3.2					
15			4.4					
16			4.0					
17			4.2					
18			4.3					
19			3.4					
20			3.8					
Mean			3.82				—	0.42 mg
Std. Dev.			0.51				—	—
Range			3.0 - 5.0				—	—

Loading (g/l)
NA

By: CR	Date: 10/21/96	Calculator Used: TI-60
Form: LOADING	Meas. Dev.: Leica Micrometer	Balance Used: SP-180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 49C2087-0630	Species: H. azteca	JRBSD05

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	23	4.5	0.9271	—	0.9348	—	0.0077
2			3.9					
3			4.0					
4			3.7					
5			4.0					
6			3.8					
7			4.5					
8			3.8					
9			4.4					
10			3.7					
11			4.4					
12			3.4					
13			3.9					
14			3.3					
15			4.7					
16			4.5					

Mean	4.03	Loading (g/l)	Mean	—	0.48 mg
Std. Dev.	0.42		Std. Dev.	—	—
Range	3.3-4.7	NA	Range	—	—

By: CR	Date: 10/21/96	Calculator Used: TI-60
Form: LOADING	Meas. Dev.: Leica micrometer	Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: ICRI SHERIDAN	Test Material: Sediment	Treatment: JRBSDOS
Project Number: 49C2C87C130	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	♀	3.9	0.9221	—	0.9311	—	0.0090
2			4.3					
3			4.4					
4			4.6					
5			4.2					
6			3.7					
7			3.8					
8			3.6					
9			4.0					
10			3.6					
11			3.6					
12			4.7					
13			3.9					
14			3.8					
15			3.9					
16			4.2					
17			4.2					
18			3.7					

Mean	4.01	Loading (g/l)	Mean	—	0.50 mg
Std. Dev.	0.34		Std. Dev.	—	—
Range	3.6 - 4.7	NA	Range	—	—

By: C.R	Date: 10/21/96	Calculator Used: TI-60
Form: LOADING	Meas. Dev.: Leica Micrometer	Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT STERLING	Test Material: sediment	Treatment:
Project Number: 49C2087C63	Species: H. azteca	TRBSD01

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	25	2.3	09254	—	0.9326	—	0.0072
2			4.3					
3			3.8					
4			3.5					
5			3.5					
6			3.5					
7			4.5					
8			4.0					
9			4.0					
10			3.9					
11			3.8					
12			4.2					
13			4.1					
14			3.5					
15			3.8					
16			4.0					
17			4.5					
18			3.7					
19			3.8					
20			4.1					
Mean			3.86				—	0.36 mg
Std. Dev.			0.47				—	—
Range			2.3 - 4.5				—	—

Loading (g/l)
NA

By: CR | Date: 01/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN | Test Material: Sediment | Treatment: HREBSD01

Project Number: 490887C63 | Species: H. azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	26	3.6	09297	—	0.9381	—	0.0084
2			4.0					
3			4.2					
4			4.0					
5			4.0					
6			3.5					
7			4.0					
8			4.2					
9			4.7					
10			4.0					
11			4.7					
12			3.8					
13			3.9					
14			4.1					
15			3.5					
16			3.3					
17			4.0					
18			3.9					
19			4.4					
20			4.0					
Mean			3.99				—	0.42 mg
Std. Dev.			0.36				—	—
Range			3.3 – 4.7				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 4962087-0630	Species: H. azteca	HERSD01

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	27	3.7	0.9361	—	0.9450	—	0.0089
2			4.0					
3			4.0					
4			4.3					
5			4.2					
6			4.0					
7			4.3					
8			4.5					
9			4.2					
10			3.9					
11			3.9					
12			4.5					
13			3.7					
14			4.6					
15			4.4					
16			3.3					
17			4.5					
18			4.0					
19			4.4					
20			3.9					
Mean			4.12				—	0.45 mg
Std. Dev.			0.33				—	—
Range			3.3 - 4.6				—	—

Loading (g/l)
NA

By: CR | Date: 10/21/96 | Calculator Used: T160

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: RCRT SHERIDAN	Test Material: Sediment	Treatment: HRBSD01
Project Number: 42087630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	28	3.6	0.9350	—	0.9445	—	0.0095
2			3.9					
3			4.2					
4			4.8					
5			4.8					
6			3.6					
7			4.1					
8			4.2					
9			3.4					
10			4.8					
11			3.8					
12			4.6					
13			4.1					
14			3.7					
15			3.6					
16			3.6					
17			3.8					
18			4.5					
19			4.2					
20			4.2					
Mean			4.08				—	0.48 mg
Std. Dev.			0.45				—	—
Range			3.4 - 4.8				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI 60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 490208706	Species: H. azteca	HRBSD02

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	29	3.6	0.9196	—	0.9258	—	0.0062
2			4.3					
3			4.5					
4			3.5					
5			3.4					
6			3.8					
7			4.3					
8			3.9					
9			3.7					
10			3.5					
11			3.7					
12			3.3					
13			3.7					
14			3.9					
15			4.3					
16			4.0					
17			3.7					
tare								

Mean	3.83	Loading (g/l)	Mean	—	0.36 mg
Std. Dev.	0.35		Std. Dev.	—	—
Range	3.3 - 4.5	NA	Range	—	—

By: CR	Date: 10/21/96	Calculator Used: TI60
Form: LOADING	Meas. Dev.: leica micrometer	Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FCRT STHERIDAN	Test Material: Sediment	Treatment:
Project Number: 49C0087-C630	Species: H. azteca	HRBSD02

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	32	3.9	0.9266	—	0.9350	—	0.0084
2			3.2					
3			4.1					
4			4.2					
5			3.7					
6			3.4					
7			4.1					
8			4.6					
9			4.5					
10			4.2					
11			3.9					
12			3.7					
13			3.4					
14			3.2					
15			3.4					
16			4.2					
17			3.8					
18			3.5					
19			4.0					
20			3.8					
Mean			3.84				—	0.42 mg
Std. Dev.			0.41				—	—
Range			3.2 - 4.6				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment: HRBSD03
Project Number: 4FD2C87-0630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	33	4.9	0.9220	—	0.9312	—	0.0092
2			4.0					
3			4.5					
4			4.2					
5			3.9					
6			3.8					
7			4.9					
8			3.7					
9			4.0					
10			4.0					
11			3.8					
12			3.7					
13			3.6					
14			4.7					
15			3.0					
16			3.8					
17			4.2					
18			3.8					
19			4.0					

Mean	4.03	Loading (g/l)	Mean	—	0.48 mg
Std. Dev.	0.47	NA	Std. Dev.	—	—
Range	3.0–4.9		Range	—	—

By: CH | Date: 12/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN | Test Material: Sediment | Treatment: HRBSDC3

Project Number: 4C2C87C630 | Species: H azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	34	4.9	0.9158	—	0.9262	—	0.0104
2			4.1					
3			3.8					
4			3.8					
5			4.4					
6			4.8					
7			4.3					
8			4.4					
9			4.0					
10			4.8					
11			4.3					
12			4.8					
13			3.8					
14			3.5					
15			4.8					
16			3.9					
17			4.3					
18			3.9					

Mean	4.26	Loading (g/l)	Mean	—	0.58 mg
Std. Dev.	0.43	NA	Std. Dev.	—	—
Range	3.5–4.9		Range	—	—

By: CLR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP-180

Aquatic Toxicology Department
Gainesville, Florida

Page: ____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT STERLING	Test Material: Sediment	Treatment:
Project Number: 4902087-C630	Species: H. azteca	HRBSD03

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	35	4.1	0.9103	—	0.9201	—	0.0101
2			4.8					
3			4.3					
4			3.9					
5			3.8					
6			4.8					
7			4.0					
8			4.5					
9			4.9					
10			4.3					
11			4.1					
12			3.6					
13			4.7					
14			3.9					
15			3.8					
16			4.0					
17			3.8					
18			4.5					
19			2.1					
Mean			4.10				—	0.53 mg
Std. Dev.			0.62				—	—
Range			2.1 - 4.9				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 902087-C63C	Species: H. azteca	HRBSD03

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	36	4.0	0.9116	—	0.9229	—	0.0113
2			5.0					
3			3.8					
4			3.8					
5			4.4					
6			4.4					
7			4.5					
8			4.2					
9			3.9					
10			4.9					
11			4.7					
12			4.9					
13			4.6					
14			4.4					
15			4.2					
16			3.8					
17			4.7					
18			4.1					
19			2.2					
20			3.8					
Mean			4.22				—	0.57 mg
Std. Dev.			0.62				—	—
Range			2.2-5.0				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN | Test Material: Sediment | Treatment: HRBSD04

Project Number: 49C2C870680 | Species: H. azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	37	3.7	0.9156	—	0.9259	—	0.0103
2			4.7					
3			4.9					
4			4.9					
5			4.7					
6			4.4					
7			3.9					
8			5.2					
9			4.7					
10			4.9					
11			4.9					
12			3.7					
13			4.3					
14			4.6					
15			4.7					
16			3.8					
17			4.2					

Mean	4.48	Loading (g/l)	Mean	—	0.61 mg
Std. Dev.	0.47	NA	Std. Dev.	—	—
Range	3.7-5.2		Range	—	—

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment: HRBSD04
Project Number: 4522087A02	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	38	4.7	0.9137	—	0.9234	—	0.0097
2			3.6					
3			4.1					
4			4.4					
5			4.1					
6			3.4					
7			4.1					
8			3.4					
9			3.7					
10			4.3					
11			3.5					
12			4.1					
13			3.6					
14			4.3					
15			3.5					
16			4.4					
17			4.5					
18			4.4					
19	—	—	—	—	—	—	—	—

Mean	4.01	Loading (g/l)	Mean	—	0.54 mg
Std. Dev.	0.42	NA	Std. Dev.	—	—
Range			Range	—	—

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: RCRT STERLING | Test Material: sediment | Treatment: HRBSD04

Project Number: 4RC87C03 | Species: H. azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	39	4.3	0.9076	—	0.9148	—	0.0072
2			3.2					
3			2.9					
4			4.7					
5			4.9					
6			3.0					
7			4.5					
8			3.8					
9			3.3					
10			3.9					
11			4.5					
12			3.1					
13			3.4					
14			4.5					
15			3.5					
16			3.6					
17			4.3					
18			4.1					
19			2.0					
20			—					
Mean			3.76				—	0.38 mg
Std. Dev.			0.75				—	—
Range			2.0 - 4.9				—	—

Loading (g/l): NA

By: CRL | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment: HRBSD04
Project Number: 49C2087-C630	Species: H azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	40	4.0	0.9115	—	0.9187	—	0.0072
2			4.2					
3			4.0					
4			3.5					
5			3.6					
6			3.8					
7			4.3					
8			4.0					
9			3.5					
10			3.9					
11			4.1					
12			3.4					
13			4.9					
14			3.5					
15			4.5					
16			4.3					
17								

Mean	4.01	Loading (g/l)	Mean	—	0.45 mg
Std. Dev.	0.44		Std. Dev.	—	—
Range	3.4 - 4.9	NA	Range	—	—

By: CRL | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 49020587-0630	Species: H. azteca	HRBSD05

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	41	3.8	0.9294	—	0.9406	—	0.0112
2			4.2					
3			5.0					
4			4.3					
5			4.3					
6			4.2					
7			4.1					
8			4.1					
9			4.7					
10			4.6					
11			3.5					
12			4.5					
13			3.5					
14			3.9					
15			4.2					
16			4.6					
17			3.8					
18			4.0					
19			3.9					
20			4.0					

Mean	4.16	Loading (g/l)	Mean	—	0.56 mg
Std. Dev.	0.39	NA	Std. Dev.	—	—
Range	3.5-5.0		Range	—	—

By: CR	Date: 10/21/96	Calculator Used: TI-60
Form: LOADING	Meas. Dev.: Leica micrometer	Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: Fort Sheridan	Test Material: sediment	Treatment: HRBSD05
Project Number: 49C2870630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	42	3.5	0.9307	—	0.9392	—	0.0085
2			3.5					
3			3.9					
4			3.2					
5			3.7					
6			3.6					
7			3.8					
8			3.9					
9			3.9					
10			4.5					
11			3.3					
12			3.5					
13			4.5					
14			3.6					
15			3.5					
16			4.4					
17			3.6					
18			4.0					
19			4.0					
20			3.6					
Mean			3.78				—	0.43 mg
Std. Dev.			0.37				—	—
Range			3.2-4.5				—	—

Loading (g/l): NA

By: CR | Date: 10/21/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: ____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN	Test Material: Sediment	Treatment:
Project Number: 40220887-0630	Species: H. AZTECA	HR38D05

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	43	4.5	0.9292	—	0.9400	—	0.0108
2			3.8					
3			4.2					
4			3.6					
5			4.0					
6			4.1					
7			3.9					
8			3.9					
9			4.3					
10			4.3					
11			3.6					
12			3.4					
13			4.3					
14			4.1					
15			4.3					
16			3.6					
17			3.2					
18			3.9					
19			4.7					
20			4.2					

Mean	4.00	Loading (g/l)	Mean	—	0.54 mg
Std. Dev.	0.38	NA	Std. Dev.	—	—
Range	3.2 – 4.7		Range	—	—

By: CR | Date: 10/21/96 | Calculator Used: TI-6C

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: 5980

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN | Test Material: Sediment | Treatment: HRBSD05

Project Number: 190287-0630 | Species: H. azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	44	3.8	0.9247	—	0.9352	—	0.0105
2			4.2					
3			4.4					
4			3.9					
5			4.3					
6			4.4					
7			3.2					
8			4.8					
9			3.6					
10			4.2					
11			4.0					
12			4.0					
13			4.4					
14			4.1					
15			3.7					
16			3.9					
17			3.6					
18			4.2					
19			3.7					
20			3.9					
Mean			4.02				—	0.53 mg
Std. Dev.			0.37				—	—
Range			3.2 - 4.8				—	—

Loading (g/l): NA

By: MO | Date: 10/22/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leca micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT Sheridan | Test Material: Sediment | Treatment: BRBSD01

Project Number: 490287-C630 | Species: H. azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	45	4.0	0.9201	—	0.9279	—	0.0078
2			4.0					
3			3.5					
4			4.0					
5			3.8					
6			3.1					
7			4.1					
8			4.0					
9			4.1					
10			3.9					
11			3.7					
12			3.0					
13			4.1					
14			3.5					
15			3.6					
16			3.8					
17			4.1					
18			3.7					
19			4.0					
20			3.8					
Mean			3.79				—	0.39 mg
Std. Dev.			0.32				—	—
Range			3.0 - 4.1				—	—

Loading (g/l)

By: MO | Date: 10/22/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Fisher micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FORT SHERIDAN | Test Material: Sediment | Treatment: BRBS001

Project Number: 49020187062 | Species: H azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	B	46	4.0	0.9239	—	0.9313	—	0.0074
2			4.0					
3			3.2					
4			4.2					
5			4.6					
6			3.9					
7			4.0					
8			3.7					
9			4.2					
10			3.1					
11			4.8					
12			3.4					
13			3.2					
14			3.3					
15			3.3					
16			3.4					
17			3.3					
18			3.8					

Mean	3.74	Loading (g/l)	Mean	—	0.41 mg
Std. Dev.	0.50	NA	Std. Dev.	—	—
Range	3.1 - 4.8		Range	—	—

By: MO | Date: 10/22/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
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Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: FCRT Sheridan	Test Material: Sediment	Treatment:
Project Number: 49C2087-C635	Species: H. azteca	BRBSD01

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	C	47	3.8	0.9269	—	0.9349	—	0.0080
2			3.9					
3			3.5					
4			4.0					
5			4.3					
6			4.2					
7			3.7					
8			4.0					
9			3.9					
10			3.2					
11			4.2					
12			3.2					
13			4.0					
14			3.7					
15			4.0					
16			3.9					
17			3.3					
18			5.0					
19			3.8					

Mean	3.87	Loading (g/l)	Mean	—	0.42 mg
Std. Dev.	0.42		Std. Dev.	—	—
Range	3.2-5.0	NA	Range	—	—

By: MO | Date: 10/22/96 | Calculator Used: THGC

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: Fort Sheridan	Test Material: Sediment	Treatment: BRBSD01
Project Number: 49C2087-C630	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	48	3.8	0.9272	—	0.9362	—	0.0090
2			4.2					
3			4.3					
4			3.0					
5			3.1					
6			4.2					
7			4.3					
8			3.7					
9			4.1					
10			3.6					
11			4.1					
12			3.9					
13			4.1					
14			4.3					
15			3.9					
16			4.3					
17			4.0					
18			4.8					
19			4.1					
20			3.6					
Mean			3.97				—	0.45 mg
Std. Dev.			0.42				—	—
Range			3.0 - 4.8				—	—

Loading (g/l): NA

By: MO | Date: 10/22/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP-180

Aquatic Toxicology Department
Gainesville, Florida

Page: ____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: ERT Sheridan	Test Material: Sediment	Treatment: BRBSD02
Project Number: 4902C857-C103	Species: H. azteca	

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	49	4.0	0.9102	—	0.9161	—	0.0059
2			3.8					
3			3.6					
4			3.9					
5			3.1					
6			3.5					
7			3.2					
8			3.6					
9			3.1					
10			3.0					
11			3.8					
12			4.0					
13			3.9					
14			3.9					
15			3.5					
16			4.2					

Mean	3.63	Loading (g/l)	Mean	—	0.37 mg
Std. Dev.	0.37	NA	Std. Dev.	—	—
Range	3.0 - 4.2		Range	—	—

By: MO | Date: 10/22/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: Fort Sheridan	Test Material: Sediment	Treatment:
Project Number: 49020870630	Species: H. azteca	BRBSD02

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	52	3.8	0.9152	—	0.9253	—	0.0101
2			4.1					
3			3.9					
4			3.8					
5			3.8					
6			4.3					
7			4.1					
8			4.0					
9			3.9					
10			4.1					
11			4.3					
12			3.2					
13			4.7					
14			3.6					
15			4.2					
16			4.2					
17			4.1					
18			3.8					
19			4.0					
Mean			4.05				—	0.53 mg
Std. Dev.			0.37				—	—
Range			3.2 - 4.7				—	—

Loading (g/l): NA

By: mo | Date: 10/22/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica Micrometer | Balance Used: SP-180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: ECRT Sheridan | Test Material: Sediment | Treatment: SRBSD01

Project Number: 49C0087-063C | Species: H. azteca

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	A	53	4.3	0.9178	—	0.9298	—	0.0120
2			4.6					
3			3.6					
4			3.3					
5			4.0					
6			4.5					
7			3.5					
8			4.0					
9			3.9					
10			4.8					
11			4.8					
12			4.3					
13			4.2					
14			3.9					
15			4.1					
16			4.2					
17			3.9					
18			4.2					
19			4.9					
20			4.2					
Mean			4.16				—	0.60 mg
Std. Dev.			0.43				—	—
Range			3.3 - 4.9				—	—

Loading (g/l): NA

By: mo | Date: 10/22/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Aquatic Toxicology Department
Gainesville, Florida

Page: _____
QA Form: 017
Effective: June 1989

Subject: Test Animal Lengths, Weights and Loading

Sponsor: Fort Sheridan | Test Material: Sediment | Treatment:

Project Number: 49C2087C620 | Species: H. azteca | SRBS001

Boat	Rep	Sex	Length (mm)	Tare Wt. (g)	Gross Wt. (g) Wet	Gross Wt. (g) Dry	Net Wt. (g) Wet	Net Wt. (g) Dry
1	D	56	3.4	0.9212	—	0.9296	—	0.0084
2			4.0					
3			4.0					
4			3.8					
5			3.7					
6			3.9					
7			3.8					
8			4.0					
9			4.0					
10			4.1					
11			3.2					
12			3.1					
13			3.4					
14			4.0					
15			4.5					
16			3.5					
17			3.9					
18			3.9					

Mean	3.79	Loading (g/l)	Mean	—	0.47 mg
Std. Dev.	0.35		Std. Dev.	—	—
Range	3.1 - 4.5	NA	Range	—	—

By: MO | Date: 10/22/96 | Calculator Used: TI-60

Form: LOADING | Meas. Dev.: Leica micrometer | Balance Used: SP180

Appendix C: Reference Toxicant Test Raw Data

TRIMMED SPEARMAN-KARBER METHOD. VERSION 1.5

MO 9/23/96

DATE: 9/18/96 TEST NUMBER: ref tox DURATION: 96 hours
TOXICANT : CdCl
SPECIES: H. azteca

RAW DATA: Concentration (ug/L)	Number Exposed	Mortalities
.00	10	0
8.00	10	0
16.00	10	0
32.00	10	7
64.00	10	9
128.00	10	10

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 29.86
95% LOWER CONFIDENCE: 23.48
95% UPPER CONFIDENCE: 37.96

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: _____
ESE QA FORM: 097SDS
Effective: January 1993

SUBJECT: REFERENCE TOXICANT TEST DATA SHEET

Client: MISC

Project Number:

Test Material

Amount ~~SDS~~: 0.0165 g
Volume of Milli-Q Water: 1000 mL
Date Prepared: 09-18-96

Test Conditions

[X] Definitive
[ ] Screening

[X] Static
Duration : 96 hours

Test Animal History

Species : H. azteca
Batch Number : 9659
Age / Life Stage : juvenile
Date Acclimation / Maintenance Began : 09-17-96
See Page 155 of Invertebrate Held Log for raw data.
Mortality (%) 48 Hrs prior to testing: 0 %

Dilution Water: Hard Recon water

Lighting : [X] Fluorescent [ ] Incandescent
Photoperiod : 16 hr Light : 8 hr Dark

Test Container Dimensions: 100 L x — W x 50 H
Test Solution Height : 4 cm
Test Containers : [ ] Open [X] Covered
Test Container Volume : 0.34 Liters
Diluent Volume : 0.25 Liters

Reps / Concentration : 1
Animals / Replicate : 10

Test Area Used	Temperature (C)	Salinity (ppt)
Waterbath 9	20 +/- 1	NA +/-

Protocol Followed: SOP-A-004

Concentrations Based on: [ ] A.I. [ ] W.M.

Container Composition: [ ] Glass [ ] Plastic

Test Concentrations: (Units = ~~mg~~ ug/L):	Control	8	16	32	64	128		
Amount Dilution Water Added (mL):	250	249.8	249.6	249.2	248.4	246.8		
Amount SDS Stock Added (mL):	N/A	0.2	0.4	0.8	1.6	3.2		

Additional Observations: _____

Data By: CL Date: 09-18-96

FORM: SDS93

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ___
ESE QA Form No.: 097 SDS
Effective: APR 1993

REFERENCE TOXICANT TEST DATA: DAY 0 and 1

Client: MISC | Project Number: | Species: H. azteca

Nominal Concentration ug/L	Date: 09-18-96 / Time: 1430				Day: 0 / Analyst: CL	
	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	n	19.8	—	8.2	7.8
8	10	n	—	—	—	—
16	10	n	—	—	—	—
32	10	n	—	—	—	—
64	10	n	—	—	—	—
128	10	n	—	—	—	—

Nominal Concentration ug/L	Date: 09-19-96 / Time: 1400				Day: 1 / Analyst: CL	
	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	n	19.8	|	8.5	7.9
8	10	n	—	|	—	—
16	10	n	—	|	—	—
32	10	n	—	|	—	—
64	10	1 LETH	—	|	—	—
128	10	5 LETH	—	|	—	—

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ___
ESE QA Form No.: 097 SDS
Effective: APR 1993

REFERENCE TOXICANT TEST DATA: DAY 0 and 1

Client: MISC | Project Number: | Species: H. azteca

Nominal Concentration ug/L	Date: 09-20-96 / Time: 1030				Day: 02 / Analyst: CR	
	# Alive	Obs.	Temp.(C)	Sal.(ppt)	D.O.(mg/L)	pH
Control	10	N	19.6	—	8.4	7.8
8	10	N	—	—	—	—
16	10	N	—	—	—	—
32	10	N	—	—	—	—
64	7	3 DEAD	—	—	—	—
128	0	10 DEAD	19.6	—	8.1	7.9

Nominal Concentration ug/L	Date: 09-21-96 / Time: 1100				Day: ~~1~~ 3 / Analyst: CR	
	# Alive	Obs.	Temp.(C)	Sal.(ppt)	D.O.(mg/L)	pH
Control	10	N	19.6	—	8.2	7.9
8	10	N	—	—	—	—
16	10	N	—	—	—	—
32	8	2 DEAD	—	—	—	—
64	4	3 DEAD	—	—	—	—
—	—	—	—	—	—	—

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ıuatic Toxicology Laboratory
ıinesville, Florida

REFERENCE TOXICANT TEST DATA: FINAL DAY

Client: MISC	Project Number:	Species:

Nominal Concentration ug/L	Date: 09-22-96		Day: 2			
	Time: 1400		Analyst: CR			
	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	N	19.5	—	7.9	7.9
8	10	N	—	—	—	—
16	10	N	—	—	—	—
32	3	3 DEAD	—	—	—	—
64	1	3 DEAD	—	—	—	—
128	—	—	—	—	—	—

Nominal Concentration ug/L	Number Dead
Control	0
8	0
16	0
32	7
64	9
128	10

Determination of Bioaccumulation Potential of Sediment Samples from Surplus OU, Fort Sheridan, in the Benthic Invertebrate, *Lumbriculus variegatus*

FINAL REPORT:

DETERMINATION OF BIOACCUMULATION POTENTIAL OF SEDIMENT SAMPLES FROM THE SURPLUS OPERABLE UNIT FORT SHERIDAN IN THE BENTHIC INVERTEBRATE, *Lumbriculus variegatus*

TEST GUIDELINE:

ASTM E 1688-95

SUBMITTED TO:

U.S. Army Environmental Center
Base Closure Division
Aberdeen Proving Ground, Maryland 21010-5401

PERFORMING LABORATORY:

Environmental Science & Engineering, Inc. (ESE)
14220 West Newberry Road
Gainesville, Florida 32607
Phone: (352) 332-3318
Fax: (352) 333-6622

STUDY ID:

ESE Project No. 4902087-0630-3100

November 1996

EXECUTIVE SUMMARY

Flow-through whole sediment bioaccumulation tests were conducted at Environmental Science & Engineering, Inc. (ESE), in Gainesville, Florida with the freshwater invertebrate, *Lumbriculus variegatus*, on samples collected from the Surplus Operable Unit, Fort Sheridan, Illinois. The effect criteria for the tests were survival and adequate tissue mass for chemical analyses. A total of 4 site sediments, 2 background sediments and one laboratory control sample, were used in the toxicity tests. Chemical analyses of the *Lumbriculus variegatus* tissues were performed for metals, explosives, semivolatile organic compounds, pesticides and polychlorinated biphenyls (PCBs).

TABLE OF CONTENTS

Section		Page
EXECUTIVE SUMMARY		2
TABLE OF CONTENTS		3
LIST OF TABLES		4
LIST OF APPENDICES		4
1.0	**INTRODUCTION**	5
2.0	**MATERIALS AND METHODS**	5
2.1	TEST SAMPLES	
2.2	DILUTION WATER	
2.3	TEST ORGANISMS	
2.4	TEST DESIGN	
2.5	REFERENCE TOXICANT TEST	
2.6	CHEMICAL ANALYSES	
3.0	**STATISTICAL ANALYSIS**	8
4.0	**RESULTS AND DISCUSSION**	8
4.1	TOXICITY TEST	
4.2	REFERENCE TOXICANT TEST	
4.3	CHEMICAL ANALYSES	
5.0	**CONCLUSION**	9
6.0	**REFERENCES**	10

LIST OF TABLES

		Page
Table 1	Water Quality Measurement Ranges of Overlying Water During a 28-Day Bioaccumulation Test Using Whole Sediment From The Surplus Operable Unit, Fort Sheridan, Illinois With *Lumbriculus variegatus*	11
Table 2	Initial and Final Weights of *Lumbriculus variegatus* Exposed to Whole Sediments From The Surplus Operable Unit, Fort Sheridan, Illinois During a 28-Day Bioaccumulation Test	12

LIST OF APPENDICES

Appendix A: Chain-of-Custody and Traffic Information

Appendix B: *Lumbriculus variegatus* Sediment Bioaccumulation Test Raw Data

Appendix C: Reference Toxicant Test Raw Data

1.0 INTRODUCTION

Flow-through whole sediment bioassays were conducted at Environmental Science & Engineering, Inc. (ESE) to examine the potential of selected contaminants to bioaccumulate in the freshwater benthic invertebrate *Lumbriculus variegatus*. The effect criterion for the bioaccumulation tests was the availability of adequate tissue for chemical analyses.

The bioassays were conducted following ASTM Guideline E 1688-95 entitled *Standard Guide for Determination of Bioaccumulation of Sediment-Associated Contaminants by Benthic Invertebrates* (ASTM, 1995), the U.S. Army Corps of Engineers (USACE) Guidelines specified in the Great Lakes Dredged Material Testing and Evaluation Manual (USACE, 1995), and ESE in-house protocols. All of the original raw data pertaining to this study are maintained at ESE, 14220 West Newberry Road, Gainesville, Florida.

2.0 MATERIALS AND METHODS

2.1 TEST SAMPLES

Test sediments were collected from the Surplus Operable Unit, Fort Sheridan, Illinois by ESE personnel on September 11 through 13, 1996, and were received on ice at the ESE Gainesville laboratory on September 13 and 14, 1996. The test samples, identified as JRBSD01, JRBSD04 (background), JRBSD06, HRBSD01, HRBSD06, and BLDBSD01 (background) were received in quantities of approximately 15 kilograms each. Upon receipt, the coolers were opened and the contents checked against the chain-of-custody sheets to ensure that all of the recorded samples were present. The temperature of the coolers was then measured using the temperature blanks provided in the coolers. Any observations were recorded in the sample receipt logbook. The laboratory control sediment used for the whole sediment bioassays, was collected by ESE personnel from Marineland, Florida. The site from which the laboratory control sediment was collected has been proven to be uncontaminated in previous tests. Chain-of-custody and traffic information for the samples are presented in Appendix A. All sediment samples were stored in a refrigerator at 4 $\pm$ 2 °C during the testing period.

2.2 DILUTION WATER

The water used as dilution or overlying water was hard freshwater with a hardness of approximately 286 mg/L as $CaCO_3$. The water, obtained from a deep well located at the test site, was held in two 200 L plastic Nalgene containers which were aerated continuously.

2.3 TEST ORGANISMS

The tests were conducted using adult *L. variegatus* obtained from Environmental Consulting and Testing, Superior, WI and were acclimated to the laboratory and test conditions for 48 hours prior to test initiation. Test organisms were acclimated to any differences in water chemistry by diluting the receiving water with test dilution water to 50 percent of receiving water, and then adjusted to 75 percent dilution water for 24 hours prior to testing. All *L. variegatus* used in the tests appeared to be normal and healthy at test initiation.

2.4 TEST DESIGN

Prior to use in testing, the sediment samples were thoroughly homogenized in glass sorting pans, and then hand-sorted to remove large stones, small sticks, leaves, and any indigenous organisms. Any observations made were recorded on a daily log sheet. The test vessels used for the bioassays were 11 L glass aquaria (16.5 cm height, 26.7 cm width and 29.2 cm length). Approximately 3 kilograms of test or control sediment were introduced into the test chambers and uniformly leveled. Eight liters (8 L) of overlying water were added to each test chamber to provide a ratio of 1 part sediment to 3 parts overlying water. The test chambers were then allowed to settle overnight without aeration. After the initial water quality measurements were taken, the test organisms were weighed and indiscriminately added to the individual test chambers, loading only one replicate at a time until loading was complete. The whole sediment tests were conducted using five replicates of 16 grams *L. variegatus* per replicate for a total of 80 grams organisms per sample. The test vessels were labeled with the site sample number and the replicate number (A through E), and the test area was identified by the project manager, project number, test type and schedule.

The flow-through test delivery system was similar to that described by Mount and Brungs (1967). Peristaltic pumps were used to pump water from the 200 L dilution water tanks into splitter boxes

which equally split the water into the test chambers. The pumps were turned on for 2 one-hour periods (morning and afternoon) daily to add overlying water into the test chambers. The delivery system was adjusted to provide 2 volume additions of overlying water per day in each replicate exposure throughout the 28-day testing period. The test organisms were not fed at any time during the testing period.

The tests were conducted at a temperature of 23 $\pm$ 2 °C under fluorescent lighting with a daily photoperiod of 16 hours of light (ambient laboratory illumination) and 8 hours of darkness. In order to maintain dissolved oxygen (DO) levels above 4 mg/L, all test chambers were aerated at a rate of approximately 100 bubbles per minute throughout the duration of the test. Temperature, pH, and DO were measured daily. Hardness, conductivity and ammonia concentrations were measured at weekly intervals during the test. Water quality measurements were taken with the following instruments: temperature--Fisher Scientific digital thermocouple; pH--SA 290A Orion pH meter with an Orion 91-57 triode; dissolved oxygen--YSI, Model 57 DO meter and Corning Checkmate 90; and conductivity--YSI, Model 33 SCT conductivity meter. Ammonia concentrations were measured with an SA290-A meter equipped with 95-12 ammonia electrodes, and hardness was measured by the EDTA titration method. All measuring instruments were calibrated daily during the test period.

The test chambers were observed daily for organism entrapment at the surface of the overlying water, sediment avoidance, and organism emergence. At the end of the 28-day exposure, test organisms were removed from the sediment and kept in fresh overlying water for 24 hours in order to clear their gut contents. After depuration, *L. variegatus* from each replicate exposure were weighed and kept in a freezer at -10 °C until shipment to the Chemistry Laboratory for chemical analyses.

2.5 REFERENCE TOXICANT TEST

Forty-eight-hour reference toxicant tests, using potassium chloride (KCl) as the reference toxicant, were performed concurrently with the chronic toxicity tests to determine the sensitivity of the *L. variegatus* test population. Concentrations of KCl selected for the reference toxicant test were 0

(control), 250, 500, 1,000, 2,000 and 4,000 mg KCl/L. Ten organisms were exposed per reference toxicant concentration with no replication. The reference toxicant tests were performed under the same conditions as the bioaccumulation tests.

2.6 CHEMICAL ANALYSES

Chemical analyses were performed on portions of the test sediments prior to the toxicity tests, and on the *L. variegatus* tissues following the 28-day exposures and 24-hour depuration. The following parameters and EPA methods were used for analyses: Metals (EPA 6010 and 6020), explosives (EPA 8330), pesticides/PCBs (EPA 8080), and semivolatiles (EPA 8270).

3.0 STATISTICAL ANALYSIS

The reference toxicant median lethal concentration (LC_{50}), the concentration of reference toxicant which causes 50 percent mortality of the test organisms under the specified conditions of exposure, was calculated using the Trimmed Spearman-Karber Statistical Computer Program (Hamilton et. al., 1977).

4.0 RESULTS AND DISCUSSION

4.1 TOXICITY TEST

Debris, including stones and plant material, was removed from some of the sediment samples prior to use in testing. No indigenous organisms were found in any of the sediments during the sorting process. Test conditions, including lighting, hardness, conductivity, dissolved oxygen, temperature, pH and ammonia values remained at acceptable levels throughout the testing period. Results of the exposure water quality parameter measurements are presented in Table 1. Test temperature ranged from 21.2 to 23.7 °C, pH ranged from 7.3 to 8.0 standard units, DO ranged from 7.9 to 8.9 mg/L and solution conductivities ranged from 420 to 590 μmhos/cm for all replicate exposures throughout the duration of the test (Table 1). Weekly ammonia measurements did not detect any ammonia nitrogen above the reporting limit of 0.10 ppm. All of the relevant raw data pertaining to this test are provided in Appendix B.

Survival and mean weight data for *L. variegatus* after the 28-day testing period are presented in Table 2. No acute or chronic toxicity was detected. After 28 days of exposure, there was adequate survival of *L. variegatus* in all the site samples. No dead organisms were found at test termination. However, there was some weight loss. The mass of *L. variegatus* recorded ranged from 42.06 (control) to 53.48 grams (BLDBSD01, background) (Table 2). It is not unusual for test organisms to lose weight in bioaccumulation tests because the organisms are not fed for the duration of the test. No unusual behavioral observations were recorded during the 28-day

4.2 REFERENCE TOXICANT TEST

Raw data pertaining to the reference toxicant tests are provided in Appendix C. Under the conditions of the test, the 96-hour LC_{50} values for the two *L. variegatus* reference toxicant tests were calculated to be 757.9 and 812.3 mg KCl/L with 95 percent confidence limits of 664.5 to 864.4 and 681.6 to 967.9 mg KCl/L, respectively. The LC_{50} values fall within the normal sensitivity ranges of the test organisms used at ESE. The reference toxicant test statistical reports are presented in Appendix C.

4.3 CHEMICAL ANALYSES

Results of chemical analyses results of the test sediments and *L. variegatus* tissue samples are provided in the Remedial Investigation (RI) report.

5.0 CONCLUSION

Under the conditions of the test, there were no acute or chronic effects determined after the 28-day exposure period. Enough *L. variegatus* tissue was available at the end of the bioaccumulation tests to perform the required chemical analyses.

6.0 REFERENCES

American Society for Testing and Materials. ASTM E 1688-95. *Standard Guide for Determination of Bioaccumulation of Sediment-Associated Contaminants by Benthic Invertebrates*. 1995.

Gulley, D.D., A.M. Boelter, and H.L. Bergman. 1991. *Toxstat 3.4*. Department of Zoology and Physiology, University of Wyoming. April 1991.

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Snedecor, G.W. and W.G. Cochran, 1980. Statistical Methods. 7th Edition. The Iowa State University Press, Ames, Iowa.

U.S. Environmental Protection Agency (EPA). 1988. *Computer Program and Users Guide for Probit and Dunnett's Analysis of Data from Acute and Short Term Chronic Toxicity Tests with Aquatic Organisms*. Prepared by Statistical Support Staff, Computer Sciences Corporation. Prepared for the Biological Methods Branch, Environmental Monitoring and Support Laboratory, Cincinnati, OH, 1988.

Table 1. Water Quality Measurement Ranges[a] of Overlying Water During a 28-Day Bioaccumulation Test Using Whole Sediment From The Surplus Operable Unit, Fort Sheridan, Illinois With *Lumbriculus variegatus*

	Lumbriculus variegatus			
Sample ID	Temp (°C)	pH (s.u.)[b]	DO (mg/L)	Cond[c]. (μmhos/cm)
CONTROL	21.9 - 23.1	7.5 - 7.8	8.3 - 8.9	440 - 580
JRBSD01	21.7 - 23.6	7.6 - 8.0	8.1 - 8.9	420 - 580
JRBSD04[d]	22.0 - 23.7	7.5 - 7.8	7.9 - 8.9	460 - 590
JRBSD06	21.7 - 23.5	7.3 - 7.8	8.2 - 8.8	470 - 550
HRBSD01	22.0 - 23.5	7.5 - 7.9	8.0 - 8.7	450 - 580
HRBSD06	21.8 - 23.6	7.5 - 7.8	8.2 - 8.8	450 - 590
BLDBSD01[d]	21.2 - 23.5	7.5 - 7.8	8.2 - 8.9	450 - 580

[a] Range of 30 measurements for temperature and DO; 5 measurements for pH,, hardness and conductivity
[b] pH measured in standard units (s.u.)
[c] Conductivity
[d] Background samples

Table 2. Initial and Final Weights of *Lumbriculus variegatus* Exposed to Whole Sediments From The Surplus Operable Unit, Fort Sheridan, Illinois During a 28-Day Bioaccumulation Test

Sample ID	Initial Weight (g)	Final Weight (g)	Loss in Weight (%)
Control	80	42.06	47.4
JRBSD01	80	52.32	34.6
JRBSD04[d]	80	49.55	38.1
JRBSD06	80	44.92	43.9
HRBSD01	80	50.79	36.5
HRBSD06	80	42.45	46.9
BLDBSD01[d]	80	53.48	33.2

[d] Background samples

Appendix A: Chain-of-Custody and Traffic Information

[redacted] & [redacted] Inc [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*6	[redacted]		[redacted] W			
*7	[redacted]		[redacted] W W			
*8	HRBSD01		W W W W W W W W W	9-11-96	1110	
*9	[redacted]		[redacted] W W			
*10	[redacted]		[redacted] W W			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) K. B. [redacted] / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 K. B. [redacted] / ESE / 9-11-96 / 1700	FedEx	[redacted] ESE 9/12/96 1130
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 2 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Three of eight W fractions C. 1843 arrived broken. MT 9/12/96

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*1	[redacted]					
*2	[redacted]					
*3	JRBSD01		W W W W W W W W W	9-11-96	1810	Bio-Assay
[redacted]						
[redacted]						

MS 9/13/96

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Michael Quinones & Kris Erickson/ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time
1 [signature] ESE 9-12-96 1635		[signature] ESE 9/13/96 11[illegible]
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ___/___
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 5 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

one W fract. arrived broken No Coolers #

[redacted] PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*1	[redacted]					
*2	[redacted]					
*3	JRBSD01		W W W W W W W W W [redacted] TO MS 9/13/96	9-11-96	1810	Bio-Assay
[redacted]						
*5	[redacted]					

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Michael Quinones & Kris Erickson/ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 [signature] ESE 9-12-96 1635	FEX	[signature] ESE 9/13/96 1130
2		
3		

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 3 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Two W fractions arrived broken. C. 295

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
[redacted]						
[redacted]						
[redacted]						
*14	JRBSD06		W W W W W W W W [redacted]	9-12-96	1225	
[redacted]						

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) [redacted] / ESE

RELINQUISHED BY: (Name/Organization/Date/Time) VIA: Fed-X REC'D BY (Name/Organization/Date/Tir

[redacted] / ESE / 9-12-96 / 1700 [redacted] ESE 9/13/96 1130

3

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____ / ____
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? 2 Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Sample is two coolers

C968

[redacted] Environmental Science & Engineering, [redacted] FIELD LOGSHEET *** [redacted]

PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. [redacted]

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
[redacted]	[redacted]		[redacted]			
[redacted]	[redacted]		[redacted]			
[redacted]	[redacted]		[redacted]			
*14	JRBSD06		W W W W W W W W W [redacted]	9-12-96	1225	
[redacted]	[redacted]		[redacted]			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Michael Quinones & Kris Erickson/ESE

	RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time
1	[signature] ESE 9-12-96 1600	FedEx	[signature] ESE 9/13/96 11
2			
3			

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on 1 Interior Temp? 4 Deg C
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:
coc 474

[redacted] Sample in two coolers

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE (#)	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
16	BLDBSD01		W W W W W W W W	9-12-96	1445	Bio-Assay
[redacted]						
[redacted]						
[redacted]						
[redacted]						
[redacted]						

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) KS B. Q— /ESE

	RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time
1	KS B. Q— /ESE/9-12-96/1700	Fedex	[illegible] ESE 9/13/96 1130
2			
3			

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on ____ 6 Deg C
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ____
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:
one W omitted both C, 1844

[redacted] Environmental Science & Engineering, [redacted]

PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN [redacted]

SNBIO

ESE/#	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*16	BLDBSD01		W W W W W W W W [redacted]	9-12-96	1445	Bio-assay
[redacted]						
[redacted]						
[redacted]						
[redacted]						

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) KS B. [redacted] / ESE

	RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1	KS B. [redacted] / ESE / 9-12-96 / 1700	Fedex	[redacted] / ESE 9/13/96 11:?
2			
3			

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping ____ (#) more samples on 1 Cooler Temp? 6 Deg C
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ____ Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

No C.#

[redacted]

Appendix B: *Lumbriculus variegatus* Sediment Toxicity Test Raw Data

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page:
ESE QA Form: 097A
Effective: August 1994

SUBJECT: TOXICITY TEST DATA SHEET

Client: Ft. Sheridan

Project Number: 4902087-0630-3100

Test Material

See Page 139-142, 146 of Effluent Log for Test Material Information

Test Conditions

[ ] Preliminary
[ ] Definitive
[X] Screening

[ ] Static [X] Flow-through

Duration : 28 Days

Test Animal History

Species : Lumbriculus variegatus
Batch Number : 96-61
Age / Life Stage : Adult
Date Acclimation / Maintenance Began : 9/17/96
See Page 156 of Invertebrate Holding Log for raw data.
Mortality (%) 48 Hrs prior to testing: 0 %

Dilution Water: Aerated well water

Lighting : [X] Fluorescent [ ] Incandescent
Photoperiod : 16 hr Light : 8 hr Dark

Test Container Dimensions (cm): 28 L x 25 W x 15 H
Test Solution Height : sediment: 4 cm ; water: ~ 14.5 cm
Test Containers : [ ] Open [X] Covered
Test Container Volume : ~ 11.0 Liters
Diluent Volume : 3.L sed / 8.0 L water Liters

Test Area Used	Temperature (C)	Salinity (ppt)
Dilution room	23 +/- 1	NA +/-

Reps / Concentration : 5
Animals / Replicate : 15.0 grams

Protocol Followed: ASTM E-1688

Concentrations Based on: [ ] A.I. [X] W.M.

Container Composition: [X] Glass [ ] Plastic

Test Concentrations: (Units = %):	Control	JRBSD01	HRBSD01	JRBSD04	JRBSD06	HRBSD06	BLDBSD01	
Amount ~~Reference Soil~~ overlying water Added (L):	8	8	8	8	8	8	8	
Amount Test ~~Soil~~ Sediment Added (L):	N/A	3	3	3	3	3	3	

Additional Observations: mo 9/19/96 (WE)

Data By: mo Date: 9/19/96

FORM: Soil94

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form Number: 018
Effective: APR 1993

Project: 4902087-0630-3100

DAILY LOG

L. variegatus tissue recovered - Ft. Sheridan bioaccumulation

mo 10/19/94 1200 Sample	Replicate	Weight of Tissue (g)
JRBSD01	A	11.40
	B	11.01
	C	10.18
	D	9.91
	E	9.82
HRBSD01	A	9.73
	B	9.41
	C	9.72
	D	10.28
	E	11.65
JRBSD04	A	9.34
	B	8.85
	C	9.40
	D	10.47
	E	11.49

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form Number: 018
Effective: APR 1993

Project: 4902087-0630-3100

DAILY LOG

L. variegatus tissue recovered – Ft. Sheridan bioaccumulation

Sample	Replicate	Weight of Tissue (g)
JRBSD06	A	9.21
	B	9.53
	C	9.07
	D	8.68
	E	8.61
HRBSD06	A	8.77
	B	8.78
	C	8.70
	D	8.00
	E	8.20
BLDBSD01	A	11.00
	B	11.20
	C	11.11
	D	9.96
	E	10.28
Control	A	9.21
	B	8.63
	C	7.71
	D	MO 10/20/96 8.6 8.16 (WSI)
	E	8.35

MO 10/20/96 1200

Environmental Science & Engineering, Inc.
A CH2M HILL Company
P.O. Box 1703 Gainesville, Florida 32602-1703
904-332-3318 Fax 904-332-0507

JOB Proj. 4902087-0630-3100
SHEET NO. _____ OF _____
CALCULATED BY _____ DATE _____
CHECKED BY MD 10/21/96 DATE _____
SCALE _____

Ft. Sheridan - Phase III - L. variegatus bioaccumulation

Sample	Total Tissue Weight (g)
Control	42.06
JRBSD01	52.32
HRBSD01	50.79
JRBS04	49.55
JRBSD06	45.10
HRBSD06	42.45
BLDBSD01	53.55

Environmental Science & Engineering, Inc. 10-18-96 *** FIELD LOGSHEET *** FIELD GROUP: SNWORM
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN WORMS LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST	SAM TYPE	SITE TYPE	DEPTH FEET	S TECH	INSTAL SAMPLE
*18	JRBSD01		(TS)	10/20/96	1200	SN.T	L. variegatus tissue				
*19	HRBSD01		(TS)	10/20/96	1200	SN.T					
*20	JRBSD04		(TS)	10/20/96	1200	SN.T					
*21	JRBSD06		(TS)	10/21/96	1200	SN.T					
*22	HRBSD06		(TS)	10/21/96	1200	SN.T					
*23	BLDBSD01		(TS)	10/21/96	1200	SN.T					
*24	Control		(TS)	10/21/96	1200	SN.T					

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) May Overman / ESE

RELINQUISHED BY: (Name/Organization/Date/Time) VIA: REC'D BY (Name/Organization/Date/Time)

1

2

3

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping 0 (#) more samples on ___/___
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ___Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Project: 4902087-0630-3100

DAILY LOG

9/16/96 MO- Completed set-up of water delivery system for L. variegatus bioaccumulation. The overlying water will be aerated well water. The well water is held in 2 x 200-Liter nalgene containers that are continually aerated. Three peristaltic pumps (a total of 5 pump heads) will deliver water from the nalgene containers to the test chambers via Tygon© tubing. Pumps #1 and 2 (4 pump heads) will each pump 1120 mL/minute to 29 of the test chambers. Pump #3 will pump 840 mL/minute to 6 of the test chambers (there are 35 test chambers). Each test chamber will receive 140 mL/min of well water during each 1-hour renewal period (except from pump #3, which will deliver 240 mL/min. over a 30-minute period). There will be two volume additions (~8 liters) per day (1 volume addition on weekends) -Test chambers are 11.0-liter glass aquaria. Each test chamber will contain 3.0-liters of sediment and ~8.0-L of overlying water. Approximately 17 grams of L. variegatus will be tested per test chamber.

9/16/96 1500 MO- Calibrated delivery of the peristaltic pumps. Note: The peristaltic pumps deliver to splitter boxes, which split the water to 140 mL/min for each tank.

9/17/96 MO- Began calibrating delivery lines (from splitter boxes to test chambers). Height of glass tips of delivery lines (located in splitter boxes) + clamps controls flow through each line.

9/17/96 MO - Received L. variegatus. The organisms appear to be in normal condition and are clumped together (normal). The organisms (52,000 total) were split into two buckets, held in 50% well water : 50% supplier's water] and put on aeration.

Project: 4902087-0630-3100

DAILY LOG

9/18/96 mo - Completed calibration of delivery lines (from splitter boxes to test chambers). Set up space heater to warm the test room. L. variegatus appear normal + were adjusted to 75% well water : 25% suppliers' water.

9/18/96 MO - Added sediment to test chambers (control and sediment samples JRBSD06, HRBSD06, BLDBSD01, JRBSD01, JRBSD04, and HRBSD01). Control sand was collected near Marineland, Florida + was rinsed with deionized water prior to use. For each sample, 15.0 liters of sample was homogenized by hand in a glass aquarium. Stones and leaves were removed - no indigenous organisms were observed. For each sample, 3.0 liters of sediment was measured out in a glass jar, added to one of five replicate test chambers, and smoothed out for a flat surface. After all sediments were in the test chambers, ~8.0 liters of overlying water (well water) was added to each test chambers. The water above JRBSD01 + HRBSD01 became cloudy; the other samples' water remained fairly clear. Finished at 1900.

9/19/96 0800 mo - Overlying water in all chambers is clear. The water delivery system is on (will run from 0735 to 0835) for first volume addition. System is working properly; however, 2 splitter boxes to Bath 1 are having to be watched - air bubbles).

9/19/96 0845 mo - Completed renewal; refilled well water holding tanks. L. variegatus appear normal.

Project: 4902087-0630-3100

DAILY LOG

9/19/96 1230 MO - L. variegatus loaded into test chambers of sediment samples JRBSD01, HRBSD01, and JRBSD04. The control and 3 other sediment samples were not loaded due to insufficient organisms - this has been rectified with the supplier + those chambers will be loaded on 9/20/96.

~16.0 g of organisms were added to each replicate. The extra 1.0 gram was included to account for weight of the water. The organisms were weighed using plastic weigh pans + the SP180 balance - organisms were immediately added to the chambers.

L. variegatus were in normal condition. The organisms are slowly spreading out and do not appear to be avoiding the sediment.

9/19/96 1700 MO - Water delivery system ran from 1540 to 1640 - system functioned properly (1 volume addition). All test chambers (with or without L. variegatus received renewals). L. variegatus had remained mostly clumped together - were spread out by hand. The organisms appear normal and are burrowing into the sediment. Dissolved oxygen was checked prior to renewal + was holding steady.

9/20/96 0900 MO - Water delivery system ran from 0800 to 0900. (all test chambers received 1 volume addition. Aeration to all replicate test chambers was initated due to low dissolved oxygen (readings ranged from 3.7 to 4.8 mg/L). Aeration delivered by tygon tubing with glass tips - rate of ~100 bubbles per minute. When DO was low, L. variegatus had anterior portions of their bodies up above the

Project: 4902087.030 300

DAILY LOG

Sediment (this is their normal reaction to low DO). With DO back ≥ 6.0 mg/L (following renewal of overlying water + caration), L. variegatus have reburrowed into the 3 sediment samples. No mortality observed - the organisms appeared normal.

9/20/96 1200 MO - Received L. variegatus (same batch and supplier as organisms used on 9/19/96). Organisms were in normal condition + placed in 50% well water : 50% supplier's water.

9/20/96 1530 MO - L. variegatus were added to the test chambers of the control sediment and sediment samples JRBSD06, HRBSD06, and BLDBSD01. Each replicate was loaded with 16.0 grams of organisms. The organisms were weighed using a plastic weigh pan + the SP180 balance. The organisms were in normal condition. Temp + DO were measured - DO levels are steady with aeration. The water delivery system was operated from 1530 to 1630 - all tanks received 1 volume addition.

9/20/96 1630 MO - The newly added L. variegatus are slowly spreading out + do not appear to be avoiding the sediment at this point. The L. variegatus in JRBSD01, HRBSD01, and BC no replicate JRBSD04 are fully submerged in the sediment.

9/21/96 1100CR. Water renewed. Test system observed & monitored

9/22/96 1330CR water renewed. Test system monitored

9/23/96 0845 MO - Water delivery system operated from 0745 to 0845.

9/23/96 1115 MO - Monitored + observed test chambers - a few worms in JRBSD06, HRBSD06, and BLDBSD01 are on the surface of the sediment. However, the majority are submerged in the sediment. All worms are submerged

Project: 4902087-0630-3100

DAILY LOG

9/23/96 MO in samples JRBSD01, HRBSD01, and JRBSD04. Some worms in the control sediment are also on the surface of the sediment. Worms that were observed appeared to be in normal condition.

9/23/96 1630 MO - Water delivery system operated from 1530 to 1630 - System functioning properly. Observations the same as at 1115.

9/24/96 0915 MO - Water delivery system operated from 0810 to 0910.

9/28/96 1045 MO - Monitored + observed test chambers. Observations are the same as 9/24/96 - some of the L. variegatus are on the surface of the control and JRBSD06, HRBSD06, and BLDBSD01. The organisms appear normal. Organisms in the other sediments are all submerged

9/28/96 1630 MO - Water delivery system operated from 1530 to 1630.

9/26/96 0900 MO - Water delivery system operated from 0800 to 0900.

9/25/96 1330 MO - Monitored + observed test chambers. Observations are the same regarding L. variegatus on the surface of the sediment, except there appears to be fewer worms on the sediment. The worms on the surface appear normal and do not appear to be adversely affected by the sediment. L. variegatus in JRBSD01, HRBSD01, and JRBSD04 are fully submerged. The tanks are remaining fairly clean; the current created by renewal water entering the test chambers is minimal - there has been no resuspension of sediment, and the worms above the surface are not affected, either. The delivery system has been functioning properly.

9/25/96 1630 MO - Delivery system was operated from 1530 to 1630.

9/26/96 0845 MO - Delivery system was operated from 0745 to 0845.

9/26/96 1400 MO - Monitored + observed test chambers. Same observations regarding L. variegatus as on 9/25/96 - about the same number of worms on surface - appear normal

Project: 4902087-0630

DAILY LOG

9/27/96 0830 MO - water delivery system operated from 0730 to 0830.

9/27/96 1000 MO - Monitored + observed test chambers - same observations as on 9/26/96.

9/27/96 1130 MO - Ammonia measurements taken on E replicates. Meter calibrated using 0.1 and 10.0 ppm as N ammonia standard.

Sediment	Measured Ammonia (as N)
Control	<0.1
JRBSD06	<0.1
HRBSD06	<0.1
BLDBSD01	<0.1
JRBSD01	<0.1
HRBSD01	<0.1
JRBSD04	<0.1

- measured using SA290-A meter with 95-12 ammonia electrode.

9/27/96 1600 MO - water delivery system operated from 1500 to 1600.

9/28/96 1230 MO - water delivery system operated from 1130 to 1230. Observed + monitored test chambers - same observations regarding L. variegatus on sediment surface.

9/29/96 1200 MO - water delivery system operated from 1030 to 1130. Observed + monitored test chambers. No change in observations.

9/30/96 0845 MO - water delivery system operated from 0745 to 0845.

9/30/96 0945 MO - Observed and monitored test chambers - no change in observations. Checked calibration of water delivery system. Delivery rates have remained within acceptable ranges.

9/30/96 1700 MO - water delivery system operated from 1600 to 1700.

10/01/96 0830 MO - water delivery system operated from 0730 to 0830.

Project: 4902087-0630-3100

DAILY LOG

10/01/96 1000 MO - Observed + monitored test chambers. There are still some worms on the surface of the sediment in the control tanks and in JRBSD06, HRBSD06, and BLDBSD01. However, the worms on the surface are fewer in number (<10% on surface). Most have burrowed into the sediment - there has been NO mortality, and the observed organisms appeared normal in appearance + behavior. The organisms in JRBSD01, HRBSD01, and JRBSD04 are all burrowed - a few can be seen with their anterior ends sticking up slightly above the sediment surface. The test chambers are remaining fairly clean + the overlying water is clear.

10/01/96 1600 MO - Delivery system operated from 1500 to 1600.

10/02/96 0845 MO - Delivery system operated from 0745 to 0845.

10/02/96 1030 MO - Monitored + observed test chambers. Same observations as on 10/01/96; ~~BLDBS~~ no 10/2/96 BLDBSD01 has the most worms on the surface of the sediment (~10%), while the control, JRBSD06, and HRBSD06 have very few still above the surface. NO mortality or abnormal behavior has been observed in any of the tanks.

10/02/96 1630 MO - Delivery system operated from 1530 to 1630.

10/03/96 0900 MO - Delivery ~~of~~ no 10/2/96 system operated from 0800 to 0900.

10/03/96 1100 MO - Monitored + observed test chambers. NO change in observations - few worms on surface of sediment in BLDBS001, JRBS006, HRBSD06, and control. NO mortality or abnormal behavior observed.

10/3/96 1600 MO - Delivery system operated from 1500 to 1600.

10/4/96 0845 MO - Delivery system operated from 0745 to 0845.

Project: 4902087-0630-3100

DAILY LOG

10/04/96 0845 MO - Ammonia measurements taken in C replicates. SA290-A meter calibrated using 0.1 and 10.0 ppm as N ammonia standards.

Sediment	Measured Ammonia (ppm as N)
Control	< 0.1
JRBSD06	< 0.1
HRBSD06	< 0.1
BLDBSD01	< 0.1
JRBSD01	< 0.1
HRBSD01	< 0.1
JRBSD04	< 0.1

10/04/96 0915 MO - Monitored + observed test chambers. No change in observations - few worms are still above surface of sediment. L. variegatus observed appear normal.

10/04/96 1530 MO - Operated delivery system from 1430 to 1530.

10/05/96 1100 CR monitored + observed test chambers no change in observations

10/06/96 1300 CR monitored + observed test chambers. no change in observations

10/07/96 0930 MO - Delivery system operated from 0815 to 0915.

10/07/96 1400 MO - Monitored + observed test chambers. There are still a few worms on the surface of the sediment in the control, JRBSD06, HRBSD06, and BLDBSD01; BLDBSD01 still has the most L. variegatus on the surface. Observed worms appear normal. The test tanks of JRBSD01, HRBSD01, and JRBSD04 are beginning to get calcium buildup + staining on the sides. Overlying water in all tanks is clear. Checked calibration of water delivery system.

Project: 4902087-0630-3100

DAILY LOG

10/07/96 1630 MO - water delivery system operated from 1530 to 1630.

10/08/96 0845 MO - water delivery system operated from 0748 to 0845.

10/08/96 1000 MO - Observed + monitored test chambers. No Livarregator observed above surface of sediment in JRBSD06 and HRBSD06. There are still a few worms (< 10%) on the sediment surface in the control and BLDBSD01 - no mortality or abnormal behavior observed.

10/08/96 1600 MO - water delivery system operated from 1500 to 1600.

10/09/96 0900 MO - water delivery system operated from 0800 to 0900.

10/09/96 1030 MO:- Observed + monitored test chambers. No Livarregator observed above surface of sediment in JRBSD01, HRBSD01, JRBSD06, and HRBSD06. A few worms (<10% of total) were observed on surface in control, BLDBSD01, and JRBSD04. Worms observed appear normal - no mortality observed.

Note: Each splitter cell of the delivery system has two delivery lines that deliver water from the splitter cell to two test tanks. During renewal, one delivery line is clamped + the other open for 30 minutes; then for the second 30-minute period, the reverse is done. This allows a delivery of ~280 mL/min for 30 minutes for all of the test chambers. That is why only the splitter cells' calibration is checked (random checks of delivery to the tanks have matched the splitter cell volumes). This has been the process throughout the test (late entry).

10/09/96 1630 MO - Delivery system operated from 1530 to 1630.

10/10/96 0830 MO - Delivery system operated from 0730 to 0830.

Project: 4902087-0630-3100

DAILY LOG

10/10/96 1115 MO- Monitored + observed test chambers. Very few L. variegatus above surface in BLDBSD01; still a few on surface (<10% of total) in control + JRBSD04. The test tanks are still fairly clean - all have some calcium deposits on sides - JRBSD01, JRBSD04, and HRBSD01 also have some staining from sediment. Overlying water in all tanks is clear.

Ammonia measurements taken in D replicates. SA290A meter calibrated using 0.1 and 10.0 ppm as N ammonia standards.

Sediment	Ammonia (ppm as N)	Sediment	Ammonia (ppm as N)
Control	<0.1	JRBSD01	<0.1 ~~<0.0~~ MO 10/14/96 (WE)
JRBSD06	<0.1	JRBSD04 D	<0.1
HRBSD06	<0.1	HRBSD01	<0.1
BLDBSD01	<0.1		

10/10/96 1600 MO- Delivery system operated from 1500 to 1600.

10/11/96 0800 MO - Delivery system operated from 0700 to 0800.

10/11/96 0915 MO- Monitored + observed test chambers. NO change in observations. NO mortality or abnormal behavior observed in any test chambers.

10/12/96 0830 MO- Delivery system operated from 0730 to 0830. Monitored + observed test chambers - no change in observations.

10/13/96 1100 MO - Delivery system operated from 1000 to 1100. Monitored + observed test chambers - no change in observations.

10/14/96 0845 MO- Delivery system operated from 0745 to 0845.

10/14/96 1015 MO - Monitored + observed test chambers - no change in observations - no mortality or abnormal behavior observed.

10/14/96 1700 MO- Delivery system operated from 1600 to 1700.

Project: 4902087-0630-3100

DAILY LOG

10/15/96 0800 MO- Delivery system operated from 0700 to 0800. Monitored + observed test chambers - no change in observations. NO mortality observed - most L. variegatus are burrowed; very few worms are above the surface of the control + JRBSD04.

10/15/96 1600 MO- Delivery system operated from 1500 to 1600.

10/16/96 0845 MO - Delivery system operated from 0745 to 0845.

10/16/96 1045 MO- Monitored + observed test chambers. NO change in observations - very few worms are above sediment surface; no mortality observed. Overlying water in all test chambers is clear; test tanks have remained fairly clean. Checked calibration of delivery system.

Ammonia measurements taken in E replicates. SX270A meter calibrated using 0.1 and 10.0 ppm as N ammonia standards.

Sediment	Ammonia (ppm as N)	Sediment	Ammonia (ppm as N)
Control	< 0.1	JRBSD01	< 0.1
JRBSD06	< 0.1	JRBSD04	< 0.1
HRBSD06	< 0.1	HRBSD01	< 0.1
BLDBSD01	< 0.1		

10/17/96 0845 MO- water delivery system operated from 0745 to 0845. Only the control, JRBSD06, HRBSD06, and BLDBSD01 were renewed. JRBSD01, HRBSD01, and JRBSD04 were not renewed since these tests will be concluded today. Monitored + observed test chambers - no change in observations.

10/17/96 1730 MO- water delivery system operated from 1630 to 1730 for control, JRBSD06, HRBSD06, and BLDBSD01. Worms from each replicate placed in beakers containing well water to purge.

Project: 4902087-0630-3100

DAILY LOG

10/18/96 0830 MO- Control, JRBSD06, HRBSD06, and BLDBSD01 exposures ended. Worms from each replicate placed in a beaker containing well water to purge.

10/18/96 1715 MO- All L. variegatus have been recovered from the sediment samples and are purging in well water (all beakers are being aerated to maintain dissolved oxygen).

Ending the tests involved separating the L. variegatus from the sediment samples. For each replicate, all of the sediment was sieved to insure that all of the worms were recovered. Sediment was sifted in MO 10/19/96 a pan and worms collected in a glass bowl. Once all of the worms for a replicate were recovered, they were placed into a glass beaker containing well water and allowed to purge.

No other organisms were observed during recovery. All of the L. variegatus appeared normal; no dead L. variegatus were observed.

10/19/96 1200 MO- L. variegatus from JRBSD01, HRBSD01, and JRBSD04 were removed from purging vessels. The worms from each replicate were rinsed with well water, any debris removed, and the worms were placed in amber glass jars. The 5 replicates of each sediment sample were combined into one jar - the weight of tissue recovered was recorded for each replicate. The chemistry ID names for the tissue samples are SNWORM*18 (JRBSD01), SNWORM*19 (HRBSD01), and SNWORM*20 (JRBSD04). The jars were stored in a locked freezer.

Project: 4902087-0630-3100

DAILY LOG

10/20/96 1200 MD- L. variegatus from the control, JRBSD06, HRBSD06, and BLDBSD01 were removed from the purging vessels. The worms from each replicate were rinsed with well water, any debris removed, and the worms placed in amber glass jars. The 5 replicates of each sediment sample were combined into one jar — the weight of tissue recovered was recorded for each replicate. The chemistry ID names for the tissue samples are SNWORM*21 (JRBSD06), SNWORM*22 (HRBSD06), SNWORM*23 (BLDBSD01), and SNWORM*24 (control). The jars were placed in a locked freezer for storage.

Note: As much excess water was removed as possible from the worms prior to weighing the tissue mass for each replicate.

10/21/96 0930 MD- The 7 jars of tissue sample were transferred to the analytical laboratory (taken to chemistry sample check-in).

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 490-2087-0630

SEDIMENT: CONTROL TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
0	A	22.0	286	7.5	8.7	550	MO 9/19/96 1045
1	B	22.5	—	—	8.8	—	MO 9/20/96 1515
2	C	22.3	—	—	8.8	—	CR 9/21/96 1230
3	D	22.0	—	—	8.8	—	CR 9/22/96 1330
4	A	22.1	—	—	8.8	—	MO 9/23/96 1115
5	B	21.9	—	—	8.7	—	MO 9/24/96 1045
6	C	22.1	—	—	8.7	—	MO 9/25/96 1330
7	D	22.8	223	7.8	8.8	440	MO 9/26/96 1330
8	A	22.8	—	—	8.8	—	MO 9/27/96 1000
9	B	22.9	—	—	8.8	—	MO 9/28/96 1230
10	C	23.0	—	—	8.8	—	MO 9/29/96 1200
11	D	22.7	—	—	8.9	—	MO 9/30/96 0945
12	MO w/ MW AE	22.9	—	—	8.6	—	MO 10/01/96 1000
13	A	22.7	—	—	8.7	—	MO 10/02/96 1015
14	B	23.0	260	7.6	8.5	580	MO 10/03/96 1015
INSTR/METHOD:		FS-5	TAR	SA290A	DO-1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 490-2887-063

SEDIMENT: Control TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
15	C	23.1	—	—	8.5	—	MO 10/04/96 0915
16	D	22.8	—	—	8.6	—	CR 10/05/96 1100
17	E	23.0	—	—	8.6	—	CR 10/06/96 1300
18	A	22.7	—	—	8.3	—	MO 10/07/96 1400
19	B	22.1	—	—	8.6	—	MO 10/08/96 1000
20	C	22.5	—	—	8.5	—	MO 10/09/96 1030
21	D	22.4	273	7.7	8.5	510	MO 10/10/96 1100
22	E	22.2	—	—	8.5	—	MO 10/11/96 0900
23	A	22.3	—	—	8.6	—	MO 10/12/96 0845
24	B	22.5	—	—	8.6	—	MO 10/13/96 1000
25	C	22.3	—	—	8.5	—	MO 10/14/96 1000
26	D	22.3	—	—	8.7	—	MO 10/15/96 0800
27	E	22.5	257	7.6	8.5	490	MO 10/16/96 1030
28	A	22.4	—	—	8.5	—	MO 10/17/96 0815
29	B	22.5	—	—	8.5	—	MO 10/18/96 0830
INSTR/METHOD:		FS-5	T-Thr	SA 29-A	DO-1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

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Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 490287-0630

SEDIMENT: JRBSD06 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
0	A	22.1	286	7.3	8.6	550	MO 9/19/96 1045
1	B	23.5	—	—	8.6	—	MO 9/20/96 1515
2	C	22.8	—	—	8.6	—	OR 9/21/96 1230
3	D	21.7	—	—	8.6	—	OR 9/22/96 1330
4	A	22.1	—	—	8.5	—	MO 9/23/96 1115
5	B	22.0	—	—	8.6	—	MO 9/24/96 1045
6	C	22.3	—	—	8.5	—	MO 9/25/96 1330
7	D	23.0	233	7.8	8.6	470	MO 9/26/96 1330
8	A	22.5	—	—	8.6	—	MO 9/27/96 1000
9	B	23.2	—	—	8.7	—	MO 9/28/96 1230
10	C	22.9	—	—	8.8	—	MO 9/29/96 1200
11	D	22.8	—	—	8.8	—	MO 9/30/96 0945
12	MO 10/1/96 A E	23.3	—	—	8.4	—	MO 10/01/96 1000
13	A	23.1	—	—	8.5	—	MO 10/02/96 1015
14	B	23.3	220	7.5	8.4	500	MO 10/03/96 1015
INSTR/METHOD:		FS-5	THr	SA290A	DO-1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 490-2087-0630

SEDIMENT: JRBSD06 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
15	C	23.3	—	—	8.4	—	MO 10/04/96 0915
16	D	23.0	—	—	8.5	—	CR 10/05/96 1100
17	E	23.2	—	—	8.6	—	CR 10/06/96 1300
18	A	23.1	—	—	8.2	—	MO 10/07/96 1400
19	B	22.3	—	—	8.4	—	MO 10/08/96 1000
20	C	23.0	—	—	8.3	—	MO 10/09/96 1030
21	D	22.5	243	7.6	8.5	480	MO 10/10/96 1100
22	E	22.3	—	—	8.4	—	MO 10/11/96 0900
23	A	22.3	—	—	8.5	—	MO 10/12/96 0845
24	B	23.2	—	—	8.3	—	MO 10/13/96 1000
25	C	23.0	—	—	8.3	—	MO 10/14/96 1000
26	D	22.5	—	—	8.4	—	MO 10/15/96 0800
27	E	23.2	244	7.7	8.3	485	MO 10/16/96 1030
28	A	23.0	—	—	8.3	—	MO 10/17/96 0815
29	B	22.9	—	—	8.2	—	MO 10/18/96 0830
INSTR/METHOD:		FS5	T/T	SG 240A	DO 1	SCT3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

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ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 4902087-0030

SEDIMENT: HRBSD06 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	22.1	286	7.5	8.6	590	MO 9/19/96 1045
1	B	23.6	—	—	8.5	—	MO 9/20/96 1575
2	C	22 3	—	—	8.6	—	CR 9/21/96 1230
3	D	21.8	—	—	8.4	—	CR 9/22/96 1330
4	A	22.4	—	—	8.6	—	MO 9/23/96 1115
5	B	22.1	—	—	8.5	—	MO 9/24/96 1045
6	C	22.6	—	—	8.3	—	MO 9/25/96 1330
7	D	22.9	237	7.8	8.5	480	MO 9/26/96 1330
8	A	22.6	—	—	8.7	—	MO 9/27/96 1000
9	B	23.1	—	—	8.6	—	MO 9/28/96 1230
10	C	23.1	—	—	8.7	—	MO 9/29/96 1200
11	D	22.9	—	—	8.8	—	MO 9/30/96 0945
12	MO/AE	23.4	—	—	8.5	—	MO 10/01/96 1000
13	A	23.2	—	—	8.6	—	MO 10/02/96 1015
14	B	23.3	239	7.5	8.4	510	MO 10/03/96 1015
INSTR/METHOD:		FS-5	Titr	SA290A	DO-1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

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ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 4902087-0630

SEDIMENT: HRBSD06 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
15	C	23.6	—	—	8.3	—	MO 10/04/96 0915
16	D	23.3	—	—	8.4	—	CR 10/05/96 1100
17	E	23.4	—	—	8.5	—	CR 10/06/96 1305
18	A	23.2	—	—	8.2	—	MO 10/07/96 1400
19	B	22.4	—	—	8.5	—	MO 10/08/96 1000
20	C	22.8	—	—	8.3	—	MO 10/09/96 1030
21	D	22.5	236	7.7	8.4	450	MO 10/10/96 1100
22	E	22.4	—	—	8.4	—	MO 10/11/96 0900
23	A	22.8	—	—	8.4	—	MO 10/12/96 0845
24	B	23.3	—	—	8.3	—	MO 10/13/96 1000
25	C	22.9	—	—	8.2	—	MO 10/14/96 1000
26	D	22.4	—	—	8.4	—	MO 10/15/96 0800
27	E	23.3	257	7.6	8.3	500	MO 10/16/96 1030
28	A	23.1	—	—	8.4	—	MO 10/17/96 0815
29	B	23.0	—	—	8.3	—	MO 10/18/96 0830
INSTR/METHOD:		FS-5	Thr	SA 220-A	DO 1	SCT3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 490208.7.06.30

SEDIMENT: BLDBSD01 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	22.1	286	7.5 ~~7.8~~ mo 9/19/96	8.7	580	MO 9/19/96 1045
1	B	23.5	—	—	8.5	—	MO 9/20/96 1515
2	C	22.8	—	—	8.6	—	CR 9/21/96 1230
3	D	21.2	—	—	8.9	—	CR 9/22/96 1330
4	A	22.6	—	—	8.8	—	MO 9/23/96 1115
5	B	22.0	—	—	8.6	—	MO 9/24/96 1045
6	C	22.2	—	—	8.5	—	MO 9/25/96 1330
7	D	22.9	229	7.8	8.5	450	MO 9/26/96 1330
8	A	22.6	—	—	8.7	—	MO 9/27/96 1000
9	B	23.1	—	—	8.6	—	MO 9/28/96 1230
10	C	23.0	—	—	8.7	—	MO 9/29/96 1200
11	D	23.0	—	—	8.9	—	MO 9/30/96 0945
12	MO 10/1/96 ~~A~~ E	23.4	—	—	8.5	—	MO 10/01/96 1000
13	A	23.3	—	—	8.6	—	MO 10/02/96 1015
14	B	23.3	230	7.5	8.3	500	MO 10/03/96 1015
INSTR/METHOD:		FS-5	Titr	SA 290A	DO 1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 4902087-0630

SEDIMENT: BLDBSD01 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
15	C	23.2	—	—	8.3	—	MO 10/04/96 0915
16	D	23.0	—	—	8.4	—	CR 10/05/96 1100
17	E	23.1	—	—	8.5	—	CR 10/06/96 1300
18	A	23.5	—	—	8.2	—	MO 10/07/96 1400
19	B	22.6	—	—	8.4	—	MO 10/08/96 1000
20	C	22.5	—	—	8.4	—	MO 10/09/96 1030
21	D	22.6	242	7.7	8.4	465	MO 10/10/96 1100
22	E	22.7	—	—	8.3	—	MO 10/11/96 0900
23	A	22.6	—	—	8.4	—	MO 10/12/96 0845
24	B	23.5	—	—	8.2	—	MO 10/13/96 1000
25	C	23.2	—	—	8.2	—	MO 10/14/96 1000
26	D	22.9	—	—	8.4	—	MO 10/15/96 0800
27	E	23.4	240	7.7	8.2	460	MO 10/16/96 1030
28	A	23.2	—	—	8.3	—	MO 10/17/96 0815
29	B	23.3	—	—	8.2	—	MO 10/18/96 0830
INSTR/METHOD:		FS5	Titr	SA 220A	DO1	SG3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 490208?-0630

SEDIMENT: JRBSD01 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
0	A	22.1	286	7.6	8.4	580	MO 9/19/96 1045
1	B	23.0	—	—	8.2	—	MO 9/20/96 1515
2	C	22.6	—	—	8.5	—	CR 9/21/96 1230
3	D	21.7	—	—	8.9	—	CR 9/22/96 1330
4	A	22.6	—	—	8.7	—	MO 9/23/96 1115
5	B	22.1	—	—	8.7	—	MO 9/24/96 1045
6	C	22.5	—	—	8.5	—	MO 9/25/96 1330
7	D	23.2	201	8.0	8.5	420	MO 9/26/96 1330
8	A	22.9	—	—	8.6	—	MO 9/27/96 1000
9	B	23.0	—	—	8.6	—	MO 9/28/96 1230
10	C	23.2	—	—	8.8	—	MO 9/29/96 1200
11	D	23.1	—	—	8.8	—	MO 9/30/96 0945
12	~~A~~ E	23.5	—	—	8.5	—	MO 10/01/96 1000
13	A	23.2	—	—	8.5	—	MO 10/02/96 1015
14	B	23.5	249	7.6	8.4	490	MO 10/03/96 1015
INSTR/METHOD:		FS-5	Titr	SA 290-A	DO-1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft Sheridan PROJECT NUMBER: 496-2087-0630

SEDIMENT: JRBSD01 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/HARD	pH	DO	COND	TECH, DATE, TIME
15	C	23.6	—	—	8.3	—	MO 10/04/96 0915
16	D	23.5	—	—	8.4	—	CR 10/05/96 1100
17	E	23.5	—	—	8.4	—	CR 10/06/96 1300
18	A	23.4	—	—	8.2	—	MO 10/07/96 1400
19	B	23.0	—	—	8.2	—	MO 10/08/96 1000
20	C	22.7	—	—	8.3	—	MO 10/09/96 1030
21	D	23.0	249	7.8	8.4	470	MO 10/10/96 1100
22	E	22.5	—	—	8.3	—	MO 10/11/96 0900
23	A	22.7	—	—	8.4	—	MO 10/12/96 0845
24	B	23.2	—	—	8.2	—	MO 10/13/96 1000
25	C	23.1	—	—	8.1	—	MO 10/14/96 1000
26	D	22.6	—	—	8.3	—	MO 10/15/96 0800
27	E	23.3	250	7.8	8.1	485	MO 10/16/96 1030
28	A	23.1	—	—	8.2	—	MO 10/17/96 0815
—	—	—	—	—	—	—	—
INSTR/METHOD:		FS-5	Thr	SA 210-A	DO-1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 490208?-0630

SEDIMENT: HRBSD01 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
0	A	22.1	286	7.5	8.0	580	MO 9/19/96 1045
1	B	23.2	—	—	8.0	—	MO 9/20/96 1515
2	C	22.6	—	—	8.3	—	CR 9/21/96 1230
3	D	22.4	—	—	8.7	—	CR 9/22/96 1330
4	A	22.6	—	—	8.6	—	MO 9/23/96 1115
5	B	22.0	—	—	8.6	—	MO 9/24/96 1045
6	C	22.6	—	—	8.2	—	MO 9/25/96 1330
7	D	23.2	223	7.9	8.6	460	MO 9/26/96 1330
8	A	23.0	—	—	8.6	—	MO 9/27/96 1000
9	B	23.2	—	—	8.5	—	MO 9/28/96 1230
10	C	23.3	—	—	8.7	—	MO 9/29/96 1200
11	D	23.1	—	—	8.7	—	MO 9/30/96 0945
12	~~9/30/96~~ AE	23.5	—	—	8.4	—	MO 10/01/96 1000
13	A	23.3	—	—	8.5	—	MO 10/02/96 1015
14	B	23.5	246	7.5	8.3	550	MO 10/03/96 1015
INSTR/METHOD:		FS-5	T-Mr	SA 290-A	DO 1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 4902087-0630

SEDIMENT: HRBSD01 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
15	C	23.5	—	—	8.2	—	MO 10/04/96 0915
16	D	23.3	—	—	8.3	—	CR 10/05/96 1100
17	E	23.4	—	—	8.2	—	CR 10/06/96 1300
18	A	23.4	—	—	8.1	—	MO 10/07/96 1400
19	B	22.9	—	—	8.2	—	MO 10/08/96 1000
20	C	23.2	—	—	8.0	—	MO 10/09/96 1030
21	D	23.1	228	7.8	8.2	450	MO 10/10/96 1100
22	E	23.0	—	—	8.3	—	MO 10/11/96 0900
23	A	22.9	—	—	8.3	—	MO 10/12/96 0845
24	B	23.3	—	—	8.1	—	MO 10/13/96 1000
25	C	23.0	—	—	8.2	—	MO 10/14/96 1000
26	D	22.8	—	—	8.4	—	MO 10/15/96 0800
27	E	23.4	232	7.8	8.1	460	MO 10/16/96 1030
28	A	23.2	—	—	8.1	—	MO 10/17/96 0815
—	—	—	—	—	—	—	—
INSTR/METHOD:		FS-5	Titr	SA 290A	DO 1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET—WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 4902087-0630

SEDIMENT: JRBSD04 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
0	A	22.1	286	7.6	8.3	590	MO 9/19/96 1045
1	B	23.4	—	—	7.9	—	MO 9/20/96 1515
2	C	22.4	—	—	8.2	—	CR 9/21/96 1230
3	D	22.0	—	—	8.9	—	CR 9/22/96 1330
4	A	22.6	—	—	8.6	—	MO 9/23/96 1115
5	B	22.1	—	—	8.6	—	MO 9/24/96 1045
6	C	22.5	—	—	8.4	—	MO 9/25/96 1330
7	D	23.0	263	7.8	8.3	550	MO 9/26/96 1330
8	A	22.5	—	—	8.7	—	MO 9/27/96 1000
9	B	22.9	—	—	8.5	—	MO 9/28/96 1230
10	C	22.8	—	—	8.6	—	MO 9/29/96 1200
11	D	22.8	—	—	8.7	—	MO 9/30/96 0945
12	~~MO 10/1/96~~ AE	23.1	—	—	8.4	—	MO 10/01/96 1000
13	A	23.2	—	—	8.4	—	MO 10/02/96 1015
14	B	23.4	245	7.5	8.2	550	MO 10/03/96 1015
INSTR/METHOD:		YSI	T+r	SA 290A	DO-1	SCT-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

Environmental Science & Engineering
Gainesville, Florida

ESE QA FORM: 108
EFFECTIVE: MARCH 94

SUBJECT: SEDIMENT TEST DATA SHEET--WATER QUALITY

SPONSOR: Ft. Sheridan PROJECT NUMBER: 490z087-0630

SEDIMENT: JRBSD04 TEST SPECIES: L. variegatus

DAY	REP	TEMP	SAL/(HARD)	pH	DO	COND	TECH, DATE, TIME
15	C	23.7	—	—	8.2	—	MO 10/04/96 0915
16	D	23.5	—	—	8.2	—	QR 10/05/96 1100
17	E	23.5	—	—	8.3	—	QR 10/06/96 1300
18	A	23.3	—	—	8.0	—	MO 10/07/96 1400
19	B	22.8	—	—	8.2	—	MO 10/08/96 1000
20	C	23.2	—	—	8.1	—	MO 10/09/96 1030
21	D	22.5	248	7.6	8.3	490	MO 10/10/96 1100
22	E	22.2	—	—	8.4	—	MO 10/11/96 0900
23	A	22.4	—	—	8.3	—	MO 10/12/96 0845
24	B	23.0	—	—	8.2	—	MO 10/13/96 1000
25	C	22.7	—	—	8.2	—	MO 10/14/96 1000
26	D	22.4	—	—	8.3	—	MO 10/15/96 0800
27	E	22.6	227	7.8	8.1	460	MO 10/16/96 1030
28	A	22.9	—	—	8.0	—	MO 10/17/96 0815
—	—	—	—	—	—	—	—
INSTR/METHOD:		FS-5	T.r	SA 290-A	DO 1	SC-3	—

KEY
TEMP=TEMPERATURE (C) DO=DISSOLVED OXYGEN (ppm) O="OLD" H20
SAL=SALINITY (ppt) COND=CONDUCTIVITY (umhos) R=RENEWED H20
HARD=HARDNESS (mg/L) TECH=TECHNICIAN

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Aquatic Toxicology Laboratory
Gainesville, Florida

Page: _____
ESE QA Form Number: 020
Effective: MAR 1993

SUBJECT: WATER ALKALINITY WORKSHEET

Sponsor: Ft. Sheridan
Test Substance: well water / sediment
Project Number: 4902087-0630
Test Species: L. variegatus

Data By: MO
Date: 9/19/96
Time: 1118

Normality of H_2SO_4 (Sulfuric Acid): 0.02 N

Correction Factor (based on standardization of H_2SO_4 titrant): 1.01

Test Concns (define units)	Sample Volume (mL)	Dilute To (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL) To pH 4.5	Final Buret Reading (mL) To pH 4.2	Titrant Used (mL)	Total Alkalinity (mg/L as CaCO3)
well water	100	—	0.0	20.6	—	mod 11/19/96 bwd 26 20.6	208

Calculation of Total Alkalinities > 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{B \times N \times 50{,}000}{\text{mL sample}}$$

where B = mL titrated
N = normality of acid

Total Alkalinity x Correction Factor = [corrected] Total Alkalinity

Calculation of Total Alkalinities < 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{(2B-C) \times N \times 50{,}000}{\text{mL sample}}$$

where B = total mL titrant to pH 4.5
C = total mL titrant to pH 4.2
N = normality of acid

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form No.: 021
Effective: FEB 1993

SUBJECT: WATER HARDNESS WORKSHEET

Sponsor: Ft. Sheridan Project Number: 4902087-0630

Test Substance: well water/sediment Test Species: L. variegatos

Data By: MD Date: 9/19/96 Time: 1115

Normality of EDTA Titrant: 0.01

Correction Factor (based on standardization of EDTA Titrant): 0.99

Test Conc'n (units)	Sample Volume (mL)	Dilute to (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL)	Total Titrant Used (mL)	TOTAL HARDNESS (mg/L) [corrected]
well water	100	—	0.0	28.9	28.9	286

Calculation of Total Hardness (mg/L as CaCO3): A x B x 1,000 / mL Sample

where A = mL of Titrant, and
B = mg CaCO3 equivalent to 1.00 mL EDTA Titrant
(1 mg CaCO3 = 1 mL EDTA Titrant)

Total Hardness x Correction Factor = [corrected] Total Hardness

Environmental Science & Engineering, Inc.
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Gainesville, Florida

Page: _____
ESE QA Form Number: 020
Effective: MAR 1993

SUBJECT: WATER ALKALINITY WORKSHEET

Sponsor: Ft. Skandaa Project Number: 4902087-0630
Test Substance: sediment/Overlying water Test Species: L. variegatus

Data By: 9/26/96 MO Date: 9/26/96 Time: 1330

Normality of H_2SO_4 (Sulfuric Acid): 0.02N

Correction Factor (based on standardization of H_2SO_4 titrant): 1.01

Test Concns (define units)	Sample Volume (mL)	Dilute To (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL) To pH 4.5	Final Buret Reading (mL) To pH 4.2	Titrant Used (mL)	Total Alkalinity (mg/L as CaCO3)
Control	100	—	0.0	20.8	—	20.8	210
JRBSD06	100	—	0.0	21.9	—	21.9	221
HRBSD06	100	—	0.0	22.0	—	22.0	222
BCDBSD01	100	—	0.0	21.5	—	21.5	217
JRBSD01	100	—	0.0	20.3	—	20.3	205
HRBSD01	100	—	0.0	20.8	—	20.8	210
JRBSD04	100	—	0.0	22.2	—	22.2	224

Calculation of Total Alkalinities > 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{B \times N \times 50{,}000}{\text{mL sample}}$$

where B = mL titrated, N = normality of acid

Total Alkalinity x Correction Factor = [corrected] Total Alkalinity

Calculation of Total Alkalinities < 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{(2B-C) \times N \times 50{,}000}{\text{mL sample}}$$

where B = total mL titrant to pH 4.5
C = total mL titrant to pH 4.2
N = normality of acid

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form No.: 021
Effective: FEB 1993

SUBJECT: WATER HARDNESS WORKSHEET

Sponsor: Ft. Sheridan Project Number: 4902087-0630

Test Substance: Sediment/overlying water Test Species: C. variegatus

Data By: MO Date: 9/26/96 Time: 1330

Normality of EDTA Titrant: 0.01 M

Correction Factor (based on standardization of EDTA Titrant): 0.99

Test Conc'n (units)	Sample Volume (mL)	Dilute to (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL)	Total Titrant Used (mL)	TOTAL HARDNESS (mg/L) [corrected]
Control	100	—	0.0	22.5	22.5	223
JRBSD06	100	—	0.0	23.5	23.5	233
HRBSD06	100	—	0.0	23.9	23.9	237
BLDBSD01	100	—	0.0	23.1	23.1	229
JRBSD01	100	—	0.0	20.3	20.3	201
HRBSD01	100	—	0.0	22.5	22.5	223
JRBSD04	100	—	0.0	26.6	26.6	263

Calculation of Total Hardness (mg/L as CaCO3): A x B x 1,000 / mL Sample

where A = mL of Titrant, and
B = mg CaCO3 equivalent to 1.00 mL EDTA Titrant
(1 mg CaCO3 = 1 mL EDTA Titrant)

Total Hardness x Correction Factor = [corrected] Total Hardness

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: _____
ESE QA Form Number: 020
Effective: MAR 1993

SUBJECT: WATER ALKALINITY WORKSHEET

Sponsor: Ft. Sheridan Project Number: 4902087-063
Test Substance: Sediment/overlying water Test Species: L. variegatus

Data By: MD Date: 10/03/96 Time: 1030

Normality of H_2SO_4 (Sulfuric Acid): 0.02 N

Correction Factor (based on standardization of H_2SO_4 titrant): 1.02

Test Concns (define units)	Sample Volume (mL)	Dilute To (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL) To pH 4.5	Final Buret Reading (mL) To pH 4.2	Titrant Used (mL)	Total Alkalinity (mg/L as CaCO3)
Control	100	—	0.0	25.4	—	25.4	259
JRBSD06	100	—	0.0	20.3	—	20.3	207
HRBSD06	100	—	0.0	22.4	—	22.4	228
BLDBSD01	100	—	0.0	21.8	—	21.8	222
JRBSD01	100	—	0.0	23.2	—	23.2	237
HRBSD01	100	—	0.0	23.2	—	23.2	237
JRBSD04	100	—	0.0	23.7	—	23.7	242

Calculation of Total Alkalinities > 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{B \times N \times 50{,}000}{\text{mL sample}}$$

where B = mL titrated
N = normality of acid

Total Alkalinity x Correction Factor = [corrected] Total Alkalinity

Calculation of Total Alkalinities < 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{(2B-C) \times N \times 50{,}000}{\text{mL sample}}$$

where B = total mL titrant to pH 4.5
C = total mL titrant to pH 4.2
N = normality of acid

Environmental Science & Engineering, Inc.
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Gainesville, Florida

Page: ____
ESE QA Form No.: 021
Effective: FEB 1993

SUBJECT: WATER HARDNESS WORKSHEET

Sponsor: Ft. Sheridan Project Number: 4902087-0630

Test Substance: Sediment/overlying water Test Species: L. variegatus

Data By: MD Date: 10/03/96 Time: 1030

Normality of EDTA Titrant: 0.01 M

Correction Factor (based on standardization of EDTA Titrant): 0.99

Test Conc'n (units)	Sample Volume (mL)	Dilute to (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL)	Total Titrant Used (mL)	TOTAL HARDNESS (mg/L) [corrected]
Control	100	—	0.0	26.3	26.3	260
JRBSD06	100	—	0.0	22.2	22.2	220
HRBSD06	100	—	0.0	24.1	24.1	239
BLDBSD01	100	—	0.0	23.2	23.2	230
JRBSD01	100	—	0.0	~~24.8~~ 25.2	~~24~~ 25.2	249
HRBSD01	100	—	0.0	24.8	24.8	246
JRBSD04	100	—	0.0	24.7	24.7	245

Calculation of Total Hardness (mg/L as CaCO3): A x B x 1,000 / mL Sample

where A = mL of Titrant, and
B = mg CaCO3 equivalent to 1.00 mL EDTA Titrant
(1 mg CaCO3 = 1 mL EDTA Titrant)

Total Hardness x Correction Factor = [corrected] Total Hardness

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Aquatic Toxicology Laboratory
Gainesville, Florida

ESE QA Form Number: 020
Effective: MAR 1993

SUBJECT: WATER ALKALINITY WORKSHEET

Sponsor: Ft. Sheridan
Test Substance: sediment/overlying water
Project Number: 4902087-0630
Test Species: L. variegatus

Data By: MO
Date: 10/10/96
Time: 1100

Normality of H_2SO_4 (Sulfuric Acid): 0.02N

Correction Factor (based on standardization of H_2SO_4 titrant): 1.02

Test Concns (define units)	Sample Volume (mL)	Dilute To (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL) To pH 4.5	Final Buret Reading (mL) To pH 4.2	Titrant Used (mL)	Total Alkalinity (mg/L as CaCO3)
Control	100	—	0.0	26.2	—	26.2	267
JRBSD06	100	—	0.0	22.8	—	22.8	233
HRBSD06	100	—	0.0	21.6	—	21.6	220
BLDBSD01	100	—	0.0	22.0	—	22.0	224
JRBSD01	100	—	0.0	23.1	—	23.1	mo 10/10/96 236
HRBSD01	100	—	0.0	21.0	—	21.0	214
JRBSD04	100	—	0.0	22.9	—	22.9	234

Calculation of Total Alkalinities > 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{B \times N \times 50{,}000}{\text{mL sample}}$$

where B = mL titrated
N = normality of acid

Total Alkalinity x Correction Factor = [corrected] Total Alkalinity

Calculation of Total Alkalinities < 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{(2B-C) \times N \times 50{,}000}{\text{mL sample}}$$

where B = total mL titrant to pH 4.5
C = total mL titrant to pH 4.2
N = normality of acid

SUBJECT: WATER HARDNESS WORKSHEET

Sponsor: Ft Sheridan Project Number: 490 2087-0630

Test Substance: Sediment / Overlying water Test Species: L. variegatus

Data By: MO Date: 10/10/96 Time: 1100

Normality of EDTA Titrant: 0.01M

Correction Factor (based on standardization of EDTA Titrant): 0.99

Test Conc'n (units)	Sample Volume (mL)	Dilute to (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL)	Total Titrant Used (mL)	TOTAL HARDNESS (mg/L) [corrected]
Control	100	—	0.0	27.6	27.6	273
JRBSD06	100	—	0.0	24.5	24.5	243
HRBSD06	100	—	0.0	23.8	23.8	236
BLOBSD01	100	—	0.0	24.4	24.4	242
JRBSD01	100	—	0.0	25.2	25.2	249
HRBSD01	100	—	0.0	23.0	23.0	228
JRBSD04	100	—	0.0	25.0	25.0	248

Calculation of Total Hardness (mg/L as CaCO3): A x B x 1,000 / mL Sample

where A = mL of Titrant, and
B = mg CaCO3 equivalent to 1.00 mL EDTA Titrant
(1 mg CaCO3 = 1 mL EDTA Titrant)

Total Hardness x Correction Factor = [corrected] Total Hardness

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Gainesville, Florida

Page: _____
ESE QA Form Number: 020
Effective: MAR 1993

SUBJECT: WATER ALKALINITY WORKSHEET

Sponsor: Ft. Sheridan Project Number: 49-2087-0630
Test Substance: Sediment/overlying water Test Species: L. variegatus

Data By: MO Date: 10/16/96 Time: 1030

Normality of H_2SO_4 (Sulfuric Acid): 0.02N

Correction Factor (based on standardization of H_2SO_4 titrant): 1.02

Test Concns (define units)	Sample Volume (mL)	Dilute To (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL) To pH 4.5	Final Buret Reading (mL) To pH 4.2	Titrant Used (mL)	Total Alkalinity (mg/L as CaCO3)
Control	100	—	0.0	24.4	—	24.4	249
JRBSD06	100	—	0.0	22.8	—	22.8	233
HRBSD06	100	—	0.0	22.1	—	22.1	225
BCDBSD01	100	—	0.0	22.2	—	22.2	226
JRBSD01	100	—	0.0	22.9	—	22.9	234
HRBSD01	100	—	0.0	20.9	—	20.9	213
JRBSD04	100	—	0.0	20.5	—	20.5	209

Calculation of Total Alkalinities > 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{B \times N \times 50{,}000}{\text{mL sample}}$$

where B = mL titrated
N = normality of acid

Total Alkalinity x Correction Factor = [corrected] Total Alkalinity

Calculation of Total Alkalinities < 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{(2B-C) \times N \times 50{,}000}{\text{mL sample}}$$

where B = total mL titrant to pH 4.5
C = total mL titrant to pH 4.2
N = normality of acid

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form No.: 021
Effective: FEB 1993

SUBJECT: WATER HARDNESS WORKSHEET

Sponsor: Ft. Sheridan Project Number: 4902087-0630

Test Substance: Sediment/Overlying water Test Species: L. variegatus

Data By: MO Date: 10/16/96 Time: 1080

Normality of EDTA Titrant: 0.01M

Correction Factor (based on standardization of EDTA Titrant): 0.99

Test Conc'n (units)	Sample Volume (mL)	Dilute to (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL)	Total Titrant Used (mL)	TOTAL HARDNESS (mg/L) [corrected]
Control	100	—	0.0	26.0	26.0	257
JRBSD06	100	—	0.0	24.6	24.6	244
HRBSD06	100	—	0.0	26.0	26.0	257
BLDBSD01	100	—	0.0	24.2	24.2	240
JRBSD01	100	—	0.0	25.3	25.3	250
HRBSD01	100	—	0.0	23.4	23.4	232
JRBSD04	100	—	0.0	22.9	22.9	227

Calculation of Total Hardness (mg/L as CaCO3): A x B x 1,000 / mL Sample

where A = mL of Titrant, and
B = mg CaCO3 equivalent to 1.00 mL EDTA Titrant
(1 mg CaCO3 = 1 mL EDTA Titrant)

Total Hardness x Correction Factor = [corrected] Total Hardness

CALIBRATION OF WATER DELIVERY SYSTEM

Sponsor: Ft. Sheridan Project Number: 4902087-0630

Test Substance: Sediment Test Species: L. variegatus

Description of Water Delivery System: Peristaltic pumps

Desired Flow Rate: #1+2: 1120 (mL/min); #3: 840 mL/~~hour~~ minute (mL/min 9/16/96 bwd)

Comments or Other Information: Pumps #1 + 2 have two pump heads; pump #3 has one pump head. — Each pump head delivers the "measured volume".

CALIBRATION

Time Water Collected Per Volume Measurement: 1 minutes(s)

	MEASURED VOLUME (mL/min)				
Delivery Tube	1	2	3	4	Mean
Pump #1	1130	1130	1130	—	1130
Pump #2	1135	1130	1130	—	1132
Pump #3	845	850	845	—	847

DELIVERIES CERTIFIED BY: MO

DATE: 9/16/97

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Gainesville, Florida

Page: ____
ESE QA Form No.: 041
Effective: APR 1993

CALIBRATION OF WATER DELIVERY SYSTEM

Sponsor: Ft Sheridan Project Number: 4902087-0630

Test Substance: Sediment Test Species: L. variegatus

Description of Water Delivery System: Peristaltic pump lines deliver to splitter boxes - each splitter box should receive 280 mL/min

Desired Flow Rate: 280 mL/~~hour~~ minute
mg/kg/gL

Comments or Other Information: Pumps # 1 & 2: Each delivery line delivers to 4 splitter boxes
Pump #3: The line delivers to 3 splitters.

CALIBRATION

Time Water Collected Per Volume Measurement: 1 minutes(s)

Splitter Cells MEASURED VOLUME (mL/min)

Delivery Tube	1	2	3	4	Mean
Pump 1 - Line 1	290 290 285 275	285 & 295 290 270	285 290 290 280	—	
Pump 1 - Line 2	280 290 290 275	275 285 290 280	275 285 290 280	—	
Pump 2 - Line 1	280 285 285 280	280 280 285 285	290 285 280 285	—	
Pump 2 - Line 2	285 270 285 290	285 275 285 285	285 275 280 285	—	
Pump 3 - Line 1	280 285 280	280 285 280	280 285 280	—	

DELIVERIES CERTIFIED BY: MO

DATE: 9/16/96

Environmental Science & Engineering, Inc.
A CH2M HILL Company
P. O. Box 1703 Gainesville, Florida 32602-1703
352-332-3318 Fax 904-332-0507

JOB _____

SHEET NO. _____ OF _____

CALCULATED BY MO 9/17/96 DATE _____

CHECKED BY + MO 9/18/96 DATE _____

SCALE _____

Water Delivery to Test Chambers (mL/min)

Bath 1	① 140, 140	② 135, 140	③ 140, 140	④ 135, 140	⑤ 140, 140	⑥ 140, 140	⑦ 140, 135
	⑧ 140, 140	⑨ 145, 140	⑩ 145 140	⑪ ~~140~~ 135 135 @MO 9/17/96 (wt)	⑫ 140 140	⑬ 140 135	⑭ 140 145
Bath 2	⑮ 140 140	⑯ 145 145	⑰ MO 145	⑱ 135 140	⑲ 135 135	⑳ 140 135	㉑ 130 135
	㉒ 140 145	㉓ 140 140	㉔ 140 140	㉕ 135 140	㉖ 145 150	㉗ 140 145	㉘ 140 140
	㉙ 280 280	㉚ 280 275	㉛ 285 285	㉜ 280 275	㉝ 280 280	㉞ 285 285	㉟ 140 145

Note: Pump #1 delivers to Bath 2 (tanks 15 - 28, 35)

Pump #2 delivers to Bath 1 (tanks ① - ⑭)

Pump #3 delivers to Bath X 2 (tanks ㉙ - ㉟)

MO 9/18/96 (wt)

— water was collected in glass beaker; measured in graduated cylinder

CALIBRATION OF WATER DELIVERY SYSTEM

Sponsor: Ft. Sheridan Project Number: 4902087-0630

Test Substance: Sediment Test Species: L. variegatus

Description of Water Delivery System: _____

Desired Flow Rate: 280 mL/~~hour~~ minute
MO 9/30/96

Comments or Other Information: _____

CALIBRATION

Time Water Collected Per Volume Measurement: 1 minutes(s)

Splitter Cells — MEASURED VOLUME (mL/min)

Delivery Tube	1	2	3	4	Mean
Pump 1 - Line 1	290 290 285 285	—	—	—	
Pump 1 - Line 2	280 285 285 285	—	—	—	
Pump 2 - Line 1	285 285 280 285	—	—	—	
Pump 2 - Line 2	285 275 280 285	—	—	—	
Pump 3 - Line 1	288 280 288	—	—	—	

DELIVERIES CERTIFIED BY: MO

DATE: 9/30/96

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form No.: 041
Effective: APR 1993

CALIBRATION OF WATER DELIVERY SYSTEM

Sponsor: Ft. Sheridan Project Number: 4902087-0630

Test Substance: Sediment Test Species: L. variegatus

Description of Water Delivery System: _____

Desired Flow Rate: 280 mL/~~hour~~ minute
MO 10/7/96

Comments or Other Information: _____

CALIBRATION

Time Water Collected Per Volume Measurement: 1 minutes(s)

Splitter Cells MEASURED VOLUME (mL/min)

Delivery Tube	1	2	3	4	Mean
Pump 1- Line 1	290 285 285 285	—	—	—	
Pump 1- Line 2	285 290 285 285	—	—	—	
Pump 2- Line 1	285 290 280 285	—	—	—	
Pump 2- Line 2	280 280 290 285	—	—	—	
Pump 3- Line 1	290 280 285	—	—	—	

DELIVERIES CERTIFIED BY: MO

DATE: 10/07/96

CALIBRATION OF WATER DELIVERY SYSTEM

Sponsor: Ft. Sheridan Project Number: 4902087-0630

Test Substance: Sediment Test Species: L. variegatus

Description of Water Delivery System: _____

Desired Flow Rate: 280 mL/~~hour~~ minute
MO 10/16/96

Comments or Other Information: _____

CALIBRATION

Time Water Collected Per Volume Measurement: 1 minutes(s)

	Splitter Cells MEASURED VOLUME (mL/min)				
Delivery Tube	1	2	3	4	Mean
Pump 1 - Line 1	285 285 290 285	—	—	—	
Pump 1 - Line 2	280 290 285 290	—	—	—	
Pump 2 - Line 1	290 290 280 280	—	—	—	
Pump 2 - Line 2	280 285 285 285	—	—	—	
Pump 3 - Line 1	285 280 290	—	—	—	

DELIVERIES CERTIFIED BY: MO

DATE: 10/16/96

Appendix C: Reference Toxicant Test Raw Data

TRIMMED SPEARMAN-KARBER METHOD. VERSION 1.5

MO 10/9/96
Lot # 96-61

DATE: 10/01/96 TEST NUMBER: Ref tox DURATION: 48 hours
TOXICANT : KCl
SPECIES: L. variegatus

RAW DATA: Concentration (mg/L)	Number Exposed	Mortalities
.00	10	0
250.00	10	0
500.00	10	0
1000.00	10	9
2000.00	10	10
4000.00	10	10

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 757.86
95% LOWER CONFIDENCE: 664.46
95% UPPER CONFIDENCE: 864.38

SUBJECT: REFERENCE TOXICANT TEST DATA SHEET

Client: MBC.

Project Number: Ref. Tox / KCl

Test Material

Amount ~~SDS~~ KCl: 10.00 g
Volume of Milli-Q Water: 1000 mL -prepared in well water
Date Prepared: 10/01/96

Test Conditions

[X] Definitive [ ] Screening

[X] Static

Duration : 48 Hours

Test Animal History

Species : Lumbriculus variegatus
Batch Number : 96-61
Age / Life Stage : adult
Date Acclimation / Maintenance Began : 9/17/96
See Page 156 of Invertebrate Holding Log for raw data.
Mortality (%) 48 Hrs prior to testing: 0 %

Dilution Water: well water

Lighting : [X] Fluorescent [ ] Incandescent
Photoperiod : 16 hr Light : 8 hr Dark

Test Container Dimensions (mm): 100 L x — W x 50 H
Test Solution Height : 4 cm
Test Containers : [ ]Open [X]Covered
Test Container Volume : 0.34 Liters
Diluent Volume : 0.25 Liters

Test Area Used	Temperature (C)	Salinity (ppt)
Diluter room	23 +/- 1	NA +/-

Reps / Concentration : 1
Animals / Replicate : 10

Protocol Followed: SOP-A-004

Concentrations Based on: [ ] A.I. [X] W.M.

Container Composition: [X] Glass [ ] Plastic

Test Concentrations: (Units = mg/L):	Control	250	500	1000	2000	4000		
Amount Dilution Water Added (mL):	250	243.75	237.5	225	200	150		
Amount ~~SDS~~ KCl Stock Added (mL): mo 9/27/96	N/A	6.25	12.5	25	50	100		

Additional Observations: _____

Data By: MO Date: 9/27/96
10/01/96

FORM: SDS93

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ___
ESE QA Form No.: 097 SDS
Effective: APR 1993

REFERENCE TOXICANT TEST DATA: DAY 0 and 1

Client: MBC. | Project Number: Ref. Tox / KCl | Species: L. variegatus

Nominal Concentration (mg/L)	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Date: 10/01/96				Day: 0		
Time: 1100				Analyst: MO		
Control	10	2	22.7	—	8.4	7.8
250	10	2	—	—	—	—
500	10	2	—	—	—	—
1000	10	2	—	—	—	—
2000	10	2	—	—	—	—
4000	10	2	—	—	—	—
Date: 10/02/96				Day: 1		
Time: 1030				Analyst: MO		
Control	10	2	23.1	—	8.3	7.7
250	10	2	—	—	—	—
500	10	2	—	—	—	—
1000	10	2	—	—	—	—
2000	1	9 Dead	—	—	—	—
4000	0	10 Dead	—	—	7.8	7.6

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ıinesville, Florida

REFERENCE TOXICANT TEST DATA: FINAL DAY

Client: Misc.	Project Number: Ref Tox / KCl	Species: L. variegatus

Nominal Concentration (mg/L)	Date: 10/03/96		Day: 2			
	Time: 1100		Analyst: MO			
	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	N		—		
250	10	N		—		
500	10	N		—		
1000	1	9 Dead		—		
2000	0	1 Dead		—		
4000	—	—	—	—	—	—

FINAL RESULTS

Nominal Concentration (mg/L)	Number Dead
Control	0
250	0
500	0
1000	9
2000	10
4000	10

TRIMMED SPEARMAN-KARBER METHOD. VERSION 1.5

MO 10/09/96

Lot # 96-62

DATE: 10/01/96 TEST NUMBER: Ref tox DURATION: 48 hours
TOXICANT : KCl
SPECIES: L. variegatus

RAW DATA: Concentration (mg/L)	Number Exposed	Mortalities
.00	10	0
250.00	10	0
500.00	10	0
1000.00	10	8
2000.00	10	10
4000.00	10	10

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 812.25
95% LOWER CONFIDENCE: 681.61
95% UPPER CONFIDENCE: 967.94

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA FORM: 097SDS
Effective: January 1993

SUBJECT: REFERENCE TOXICANT TEST DATA SHEET

Client: Misc.

Project Number: Ref Tox / KCl

Test Material

Amount ~~SDS~~ KCl: 10.00 g
Volume of Milli-Q Water: 1000 mL
Date Prepared: 10/01/96

Test Conditions

[X] Definitive [X] Static
[ ] Screening Duration: 48 Hours

Dilution Water: well water

Test Animal History

Species : L. variegatus
Batch Number : 96-62
Age / Life Stage : Adult
Date Acclimation / Maintenance Began : 9/20/96
See Page ~~®~~ 157 of Invertebrate Holding Log for raw data.
Mortality (%) 48 Hrs prior to testing: 0 %

Lighting : [X] Fluorescent [ ] Incandescent
Photoperiod : 16 hr Light : 8 hr Dark

Test Container Dimensions (mm): 100 L x — W x 50 H
Test Solution Height : 4 cm
Test Containers : [ ] Open [X] Covered
Test Container Volume : 0.34 Liters
Diluent Volume : 0.25 Liters

Test Area Used	Temperature (C)	Salinity (ppt)
Dilution room	23 +/- 1	+/-

Reps / Concentration : 1
Animals / Replicate : 10

Protocol Followed: SOP-A-004

Concentrations Based on: [ ] A.I. [X] W.M.

Container Composition: [X] Glass [ ] Plastic

Test Concentrations: (Units = mg/L):	Control	250	500	1000	2000	4000		
Amount Dilution Water Added (mL):	250	243.75	237.5	225	200	150		
Amount ~~SDS~~ KCl Stock Added (mL): mo 9/27/96	N/A	6.25	12.5	25	50	100		

Additional Observations: ® mo 10/9/96 (IV)

Data By: MO Date: 9/27/96
10/01/96

FORM: SDS93

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ___
ESE QA Form No.: 097 SDS
Effective: APR 1993

REFERENCE TOXICANT TEST DATA: DAY 0 and 1

Client: MBC | Project Number: Ref. Tox / KCl | Species: L. variegatus

Date: 10/01/96 | Day: 0
Time: 1100 | Analyst: MO

Nominal Concentration (mg/L)	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	2	22.7	—	8.4	7.8
250	10	2	—	—	—	—
500	10	2	—	—	—	—
1000	10	2	—	—	—	—
2000	10	2	—	—	—	—
4000	10	2	—	—	—	—

Date: 10/02/96 | Day: 1
Time: 1030 | Analyst: MO

Nominal Concentration (mg/L)	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	2	23.0	—	8.5	7.7
250	10	2	—	—	—	—
500	10	2	—	—	—	—
1000	10	2	—	—	—	—
2000	2	8 Dead	—	—	—	—
4000	0	10 Dead	—	—	7.9	7.6

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ıuatic Toxicology Laboratory
ıinesville, Florida

REFERENCE TOXICANT TEST DATA: FINAL DAY

Client: Misc	Project Number: Ref Tox / KCl	Species: L. variegatus

Nominal Concentration (mg/L)	Date: 10/03/96				Day: 2	
	Time: 1100				Analyst: MO	
	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	N		—		
250	10	N		—		
500	10	N		—		
1000	2	8 Dead		—		
2000	0	2 Dead		—		
4000	—	—	—	—	—	—

FINAL RESULTS

Nominal Concentration (mg/L)	Number Dead
Control	0
250	0
500	0
1000	8
2000	10
4000	10

Results of Acute Toxicity Tests of Fathead Minnows Exposed to Groundwater Samples from the Surplus OU, Fort Sheridan, Illinois

RESULTS OF ACUTE TOXICITY TESTS OF FATHEAD MINNOWS EXPOSED TO GROUND WATER SAMPLES FROM THE SURPLUS OPERABLE UNIT, FORT SHERIDAN, ILLINOIS

Prepared for:

U.S. ARMY ENVIRONMENTAL CENTER
Base Closure Division
Aberdeen Proving Ground, Maryland 21010-5401

Prepared by:

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
14220 Newberry Road
Gainesville, Florida 32607

Project No. 4902087-0630-3100
September 1996

EXECUTIVE SUMMARY

Definitive static-renewal acute toxicity tests were conducted with the fathead minnow, *Pimephales promelas*, on ground water samples collected from the Surplus Operable Unit, Fort Sheridan, Illinois. The effect criterion for the acute toxicity tests was mortality. A total of 3 Landfill 2 (LF2) ground water samples, 3 background samples and one laboratory control sample were used in the toxicity tests. After 96-hours of exposure, mortality of *P. promelas* in the control exposure was 0 percent. Survival of *P.promelas* in all of the five concentrations (6.25, 12.5, 25.0, 50.0, and 100.0 percent) of LF2 and background water samples ranged from 90 percent (100 percent LF2MW09S) to 100 percent (100 percent BGMW04). There were no significant differences ($p < 0.05$) in mortality between the laboratory control and any of the LF2 or background water samples. Under the conditions of the study, the 96-hour LC50 values for all the ground water samples were greater than 100 percent.

TABLE OF CONTENTS

SECTION		PAGE
EXECUTIVE SUMMARY		2
TABLE OF CONTENTS		3
1.0	**INTRODUCTION**	4
2.0	**METHODS AND MATERIALS**	4
	2.1 Test Methods	
	2.2 Test Organisms	
	2.3 Control Water	
	2.4 Test Samples	
	2.5 Test Concentrations	
	2.6 Monitoring of Toxicity Tests	
	2.7 Reference Toxicant Tests	
	2.8 Statistical Analysis	
3.0	**RESULTS AND DISCUSSION**	5
4.0	**CONCLUSIONS**	13
5.0	**REFERENCES**	13

Appendix A Chain of Custody Records
Appendix B *Pimephales promelas* Test Data
Appendix C Reference Toxicant Test Data

1.0 INTRODUCTION

Environmental Science & Engineering, Inc. (ESE) conducted 96-hour definitive static-renewal acute toxicity tests from September 10 through 14, 1996, with ground water samples collected from three monitoring wells located proximal to Landfill 2 (LF2) in the Surplus Operable Unit of Fort Sheridan, Illinois. The well sites were identified as LF2MW06S, LF2MW08S, and LF2MW09S. Three background water samples from Fort Sheridan, collected at well sites BGMW02, BGMW03, and BGMW04, were also tested. The freshwater test species was the fathead minnow, *Pimephales promelas*. The effect criterion for the acute toxicity tests was mortality. All raw data related to this study are maintained at ESE (Gainesville, FL).

2.0 METHODS AND MATERIALS

2.1 TEST METHODS

Tests were performed according to the procedures outlined in "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms", EPA/600/4-90/027F.

P. promelas were exposed in 340-milliliter (mL) glass dishes containing 200 mL of test or control solution. Test vessels were held in a waterbath adjusted to maintain a temperature of 20 $\pm$ 1°C under fluorescent lighting with a daily photoperiod of 16 hours light and 8 hours dark.

2.2 TEST ORGANISMS

The test organisms were juvenile *P. promelas* (7 days old at test initiation) obtained from Florida Bioassay Supply (Gainesville, FL). All organisms appeared to be in normal condition prior to testing. The organisms were acclimated to test conditions (dilution water and temperature) prior to testing. *P. promelas* were fed 0.2 mL brine shrimp (*Artemia sp.*) during acclimation and for 2 hours prior to test solution renewal at 48 hours.

2.3 CONTROL WATER

The water used for acclimation and dilution during the tests was moderately hard reconstituted freshwater prepared using deionized water.

2.4 TEST SAMPLES

Grab samples (4 liters each) of ground water from Fort Sheridan, Illinois, were collected by ESE personnel on September 8, 1996. Three ground water samples were collected from monitoring wells LF2MW06S, LF2MW08S, and LF2MW09S downgradient of LF2. Three ground water samples were collected from Fort Sheridan background monitoring wells BGMW02, BGMW03, and BGMW04. Samples were collected in 1.0-liter (L) amber glass jars and were transported on ice to ESE's Toxicology Laboratory (Gainesville, FL) by overnight courier. The samples were received at the Toxicology Laboratory on September 9, 1996. Initial water quality data of the six ground water samples is presented in Table 2-1. The samples were stored throughout the test period in a refrigerator at 4 $\pm$ 2°C. Portions of the test samples were warmed to 20 $\pm$ 1

°C prior to test initiation, and were not aerated or filtered at any time. The toxicity tests were initiated on September 10, 1996, within 48 hours of sample collection. Ground water samples from each well were also chemically analyzed by ESE.

2.5 TEST CONCENTRATIONS

The concentrations used for the definitive acute toxicity test of each test sample were 0 (control water), 6.25, 12.5, 25, 50, and 100 percent. Test concentrations used in the toxicity tests were prepared by diluting portions of the ground water samples with control water. The ground water and control concentrations were conducted in duplicate with 20 organisms per concentration, equally divided among the replicates.

2.6 MONITORING OF TOXICITY TESTS

The tests were monitored at test initiation and daily thereafter for mortality, temperature, dissolved oxygen and pH. Conductivity, hardness, and alkalinity of the dilution water and 100 percent well water samples were measured at test initiation.

2.7 REFERENCE TOXICANT TESTS

A forty-eight hour reference toxicant test using sodium lauryl sulfate (SDS) was conducted to evaluate the sensitivity of the test organisms. The concentrations of the reference toxicant test were 0 (control), 2.5, 5, 10, 20, and 40 mg SDS/L.

2.8 STATISTICAL ANALYSIS

At the conclusion of the 96-hour acute toxicity and 48-hour reference toxicant tests, median lethal (LC50) concentrations were calculated by the Trimmed Spearman-Karber statistical method using a computer program (EPA, 1994). The LC50 is defined as the concentration of test sample or reference toxicant causing 50 percent mortality of the test species under the specified test conditions. If less than 50 percent mortality was observed in the ground water exposures, then the LC50 was reported as greater than 100 percent ground water (> 100 percent).

3.0 RESULTS AND DISCUSSION

After 96 hours, survival of *P. promelas* in the control exposure was 100 percent. Survival of *P. promelas* ranged from 90 to 100 percent in the exposure concentrations of all of the test samples (LF2MW06S, LF2MW08S, LF2MW09S, BGMW02, BGMW03, and BGMW04). Survival of *P. promelas* in the six ground water samples is summarized in Tables 3-1 through 3-6. The 96-hour LC50 values for *P. promelas* exposed to the ground water samples were all > 100 percent. During the tests, no difference in behavior of *P. promelas* was observed between ground water collected downgradient from LF2 and ground water collected from the background monitoring wells.

Dissolved oxygen levels remained above 60 percent saturation for the duration of the tests and test temperatures remained in the range of 20.1 to 20.6 °C.

The LC50 for the reference toxicant test of *P. promelas* was 26.4 mg SDS/L (95 percent confidence limits of 23.1 and 30.1 mg SDS/L). The results from the reference toxicant test fell within ESE's current control limits and demonstrated that the test organisms were within their expected sensitivity ranges.

4.0 CONCLUSIONS

After 96 hours of exposure to ground water from wells LF2MW06S, LF2MW08S, LF2MW09S, BGMW02, BGMW03, and BGMW04, survival of *P. promelas* ranged from 90 to 100 percent in the ground water exposure concentrations. Survival of *P. promelas* in the control was 100 percent. The 96-hour LC50 values for *P. promelas* exposed to the six ground water samples were all >100 percent. *P. promelas* exposed to ground water collected downgradient from LF2 exhibited no increase in mortality or abnormal behavior as compared to background water samples.

5.0 REFERENCES

United States Environmental Protection Agency. *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, 4th Edition, EPA/600/4-90/027F. Environmental Monitoring and Support Laboratory. Cincinnati, Ohio. August, 1993.

United States Environmental Protection Agency (EPA), 1994. *Toxicity Data Analysis Software*. EMSL-Cincinnati. June, 1994.

Table 2-1. **Initial Water Quality of Six Ground Water Samples Collected on September 8, 1996, from Monitoring Wells Located on the Surplus Operable Unit, Fort Sheridan, Illinois.**

Ground Water Sample ID	Initial Water Quality[a]					
	Temp[b]	Cond[c]	pH[d]	D.O.[e]	Hard[f]	Alk[f]
LF2MW07S	2.9	1000	6.7	6.5	764	367
LF2MW08S	3.3	1050	6.8	8.2	855	396
LF2MW09S	3.5	900	6.8	7.1	701	339
BGMW02	3.9	800	7.1	5.6	566	356
BGMW03	3.8	800	7.3	9.2	479	246
BGMW04	4.1	580	7.1	7.9	356	360

[a] Measured upon arrival at ESE's Toxicology Laboratory in Gainesville, Florida.
[b] Temperature measured in degrees Celsius (°C).
[c] Conductivity measured in microohms per centimeter (μmhos/cm).
[d] pH measured in standard units.
[e] Dissolved oxygen measured in mg/L.
[f] Hardness and Alkalinity measured in mg/L as calcium carbonate ($CaCO_3$).

Source: ESE, 1996.

Table 3-1. **Survival of *Pimephales promelas* During a 96-Hour Acute Toxicity Test Conducted from September 10 through 14, 1996 with a Ground Water Sample From Monitoring Well LF2MW07S, Located on the Surplus Operable Unit, Fort Sheridan, Illinois.**

Percent Ground Water	Survival[a] (%) 24 Hr	48 Hr	72 Hr	96 Hr
Control	100	100	100	100
6.25	100	100	100	100
12.5	100	100	100	100
25	100	100	100	100
50	100	100	100	95
100	95	95	95	95

[a] Twenty *P. promelas* were exposed per test concentration.

Source: ESE, 1996.

Table 3-2. **Survival of *Pimephales promelas* During a 96-Hour Acute Toxicity Test Conducted from September 10 through 14, 1996 with a Ground Water Sample From Monitoring Well LF2MW08S, Located on the Surplus Operable Unit, Fort Sheridan, Illinois.**

Percent Ground Water	Survival[a] (%) 24 Hr	48 Hr	72 Hr	96 Hr
Control	100	100	100	100
6.25	100	100	100	100
12.5	100	100	100	100
25	100	95	95	95
50	100	100	100	100
100	95	95	95	95

[a] Twenty *P. promelas* exposed per test concentration.

Source: ESE, 1996.

Table 3-3. Survival of *Pimephales promelas* During a 96-Hour Acute Toxicity Test Conducted from September 10 through 14, 1996 with a Ground Water Sample From Monitoring Well LF2MW09S, Located on the Surplus Operable Unit, Fort Sheridan, Illinois.

Percent Ground Water	Survival[a] (%) 24 Hr	48 Hr	72 Hr	96 Hr
Control	100	100	100	100
6.25	100	100	100	100
12.5	100	100	100	100
25	100	100	100	100
50	100	95	95	95
100	95	90	90	90

[a] Twenty *P. promelas* exposed per test concentration.

Source: ESE, 1996.

Table 3-4. **Survival of *Pimephales promelas* During a 96-Hour Acute Toxicity Test Conducted from September 10 through 14, 1996 with a Ground Water Sample From Background Monitoring Well BGMW02, Located on the Surplus Operable Unit, Fort Sheridan, Illinois.**

Percent Ground Water	Survival[a] (%) 24 Hr	48 Hr	72 Hr	96 Hr
Control	100	100	100	100
6.25	100	100	100	100
12.5	100	100	100	100
25	100	95	95	95
50	100	95	95	95
100	100	100	100	95

[a] Twenty *P. promelas* exposed per test concentration.

Source: ESE, 1996.

Table 3-5. **Survival of *Pimephales promelas* During a 96-Hour Acute Toxicity Test Conducted from September 10 through 14, 1996 with a Ground Water Sample From Background Monitoring Well BGMW03, Located on the Surplus Operable Unit, Fort Sheridan, Illinois.**

Percent Ground Water	Survival[a] (%) 24 Hr	48 Hr	72 Hr	96 Hr
Control	100	100	100	100
6.25	100	100	100	100
12.5	100	100	100	100
25	100	100	100	100
50	100	100	100	100
100	100	100	100	95

[a] Twenty *P. promelas* exposed per test concentration.

Source: ESE, 1996.

Table 3-6. **Survival of *Pimephales promelas* During a 96-Hour Acute Toxicity Test Conducted from September 10 through 14, 1996 with a Ground Water Sample From Background Monitoring Well BGMW04, Located on the Surplus Operable Unit, Fort Sheridan, Illinois.**

Percent Ground Water	Survival[a] (%) 24 Hr	48 Hr	72 Hr	96 Hr
Control	100	100	100	100
6.25	100	100	100	100
12.5	100	100	100	100
25	100	100	100	100
50	100	100	100	100
100	100	100	100	100

[a] Twenty *P. promelas* exposed per test concentration.

Source: ESE, 1996.

Appendix A: **Chain of Custody Records**

Environmental Science & Engineering, Inc.

Page: 136
Toxicology Form No.: 011A
Effective: May 1996

EFFLUENT/SEDIMENT RECEIPT AND USAGE LOG

Test Material: Ft. Sheridan / Groundwater Project No.: 4902087-0630-3100

Sponsor: Ft. Sheridan Receipt Date: 9/10/96

Type and Number of Containers: ~~12~~ 16 x 1-liter amber glass jars (no chlorine (WS))

Mode of Transport: ___ Mail ___ Hand ✓ Courier: FedEx Tracking number: _____

Preserved on Ice: Yes Chain-of-Custody Tape Intact: Yes Composite/Grab: Grab

Information: Samples received at chemistry check-in & transferred to toxicology lab by Mark Overman.
→ 16 jars

INITIAL TEST MATERIAL CHARACTERISTICS

Sample ID:	LF2MW09 (6) (no 9/10/96 data)	LF2MW08	LF2MW09	BGMW02
Temperature (°C):	2.9	3.3	3.5	3.9
Conductivity/Salinity (umhos/cm; ppt):	1000	1050	900	800
pH (standard units):	6.7	6.8	6.8	7.1
Dissolved Oxygen (mg/L):	6.5	8.2	7.1	5.6
Color:	clear	clear	slightly clear (no chlorine (WS))	cloudy
Total Residual Chlorine (mg/L):	—	—	—	—
Ammonia (mg/L as N):	—	—	—	—

Sample Used Upon Receipt (Y/N): Yes

Storage: Stored in refrigerator @ 4±2°C.

Date/Time Recorded: 9/10/96 1330 Sample Custodian: MO

TEST MATERIAL USAGE

Date	Amount	Purpose	Storage	Initials
9/10/96	1.4L (each)	Test initiation & check-in	✓	MO
9/12/96	1.0L	Renewal	✓	MO

Test Material Discarded On: _____ By: _____

Reviewed By: JN Date: 10/22/96

Environmental Science & Engineering, Inc.

A ELCORP Company

Toxicology Form No.: 011A
Effective: May 1996

EFFLUENT/SEDIMENT RECEIPT AND USAGE LOG

Test Material: Groundwater Project No.: 4902987-0630-3000

Sponsor: Ft. Stanton Receipt Date: 9/10/96

Type and Number of Containers: ~~6 x~~ no glass (used) 8 x 1-liter amber glass jars

Mode of Transport: __ Mail __ Hand ✓ Courier: FedEx Tracking number: _____

Preserved on Ice: Yes Chain-of-Custody Tape Intact: Yes Composite/Grab: Grab

Information: Samples received at chemistry check-in; transfered to toxicology lab by Mark Overman.

INITIAL TEST MATERIAL CHARACTERISTICS

Sample ID:	BGMW03	BGMW04	—	—
Temperature (°C):	3.8	4.1		
Conductivity/Salinity (~~umhos/cm~~; ppt):	800	580		
pH (standard units):	7.3	7.1		
Dissolved Oxygen (mg/L):	9.2	7.9		
Color:	cloudy	clear		
Total Residual Chlorine (mg/L):	—	—		
Ammonia (mg/L as N):	—	—		

Sample Used Upon Receipt (Y/N): Yes

Storage: Stored in refrigerator @ 4±2°C.

Date/Time Recorded: 9/10/96 1330 Sample Custodian: MO

TEST MATERIAL USAGE

Date	Amount	Purpose	Storage	Initials
9/10/96	1.4 L (ea.)	Test initiation + check-in	✓	MO
9/12/96	1.0 L	Renewal	✓	MO

Test Material Discarded On: _____ By: _____

Reviewed By: JN Date: 10/22/96

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
[redacted]						
[redacted]						
[redacted]						
[redacted]						
30	LF2MW06S		W W W W	9-8-96	1450	Bio-Assay

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) RLK / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 RLK / ESE / 9-8-96 / 1545		Storage
2 RLK / ESE / 9-9-96 / 1600		Fed-Ex
3 Fed Ex		May Overman / ESE / 9-10-96 / 1330

SAMPLER: Shipped on Ice? (Yes)/No; I anticipate shipping 4 (#) more samples on 9/10
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ___Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
*31	LF2MW08S		W W W W	9-8-96	1440	Bio-Assay
~~*32~~	~~LF2MW09~~		~~W W~~			
~~*33~~	~~ENTRY USED FOR ENTRY Bad Bio Assay~~		W W W W W W W W	~~9-8-96~~	~~1445~~	

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD, IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) RLK / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 RLK / ESE / 9-8-96 / 1545		Storage
2 RLK / ESE / 9-9-96 / 1600		Fed ex
3 Fed Ex		Max Owens / ESE / 9-10-96 / 1330

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping 4 (#) more samples on 9/10
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ___Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~31~~	~~LF2MW08~~		~~W~~ ~~W~~			
*32	LF2MW09		W W W W	9-8-96	1310	Bio-Assay
~~33~~	~~EXTRA~~		~~W W W W W W W W~~			~~USED FOR DATA DUP BIO ASSAY~~

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) RLK / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 RLK / ESE / 9-8-96 / 1545	Storage	
2 RLK / ESE / 9-9-96 / 1600	Fed-ex	
3 FedEx		Mary Overman / ESE / 9-10-96 / 1330

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping 4 (#) more samples on 9/10
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ___Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

2 Coolers

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: S..BIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~31~~	~~LF2MW08~~	~~W~~	~~W~~			
*32	LF2MW095		(W) (W) (W) (W)	9-8-96	1310	Bio-Assay
~~*33~~	~~ENTER SITE ID AS NEEDED~~		~~(W) (W) (W) (W) (W) (W) (W) (W)~~			~~DO BIO ASSAY~~

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) RLK / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time
1 RLK / ESE / 9-8-96 / 1545	Storage	
2 RLK / ESE / 9-9-96 / 1600	Fed-ex	
3 FedEx		May Overnes / ESE / 9-10-96 / 1330

SAMPLER: Shipped on Ice? (Yes)/No; I anticipate shipping 4 (#) more samples on 9/10
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ___Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

2 Coolers

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~20~~	~~BGS MW1(5)~~	~~W~~				
27	BGMW02		W WW W	9-8-96	1500	Bio-Assay
~~28~~	~~BGMW03~~		~~W W~~			
~~29~~	~~BGMW04~~		~~W W~~			
~~30~~	~~LF2MW07~~		~~W W~~			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) Wayne Murphy/ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time
1 Wayne Murphy/ESE/9-8-96/1545		Storage/9-8-96
2 Wayne Murphy/ESE/9-9-96/1600		Fed-Ex
3 FedEx		Max Overman/ESE/9-10-96/1330

SAMPLER: Shipped on Ice? (Yes)/No; I anticipate shipping 4 (#) more samples on 9/10
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ___Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~*26~~	~~BGMW01~~		~~W~~			
~~*27~~	~~BGMW02~~		~~W W~~			
*28	BGMW03		W W W W	9-8-96	0940	Bio-Assay
~~*29~~	~~BGMW04~~		~~W W~~			
~~*30~~	~~LF2MW07~~		~~W W~~			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE,TIME,FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) D. Hyde / ESE

RELINQUISHED BY: (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1 D. Hyde / ESE / 9-8-96 / 1545		Storage
2 D. Hyde / ESE / 9-9-96 / 1600		Fed-Ex
3 Fed Ex		Max Aeman / ESE / 9-10-96 / 1330

SAMPLER: Shipped on Ice? (Yes)/No; I anticipate shipping 4 (#) more samples on 9/10
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ___Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Environmental Science & Engineering, Inc. 08-21-96 *** FIELD LOGSHEET *** FIELD GROUP: SNBIO
PROJECT NUMBER 1295027G 0201 FG NAME: FT SHERIDAN BIOASSAY PHASE II LAB COORD. KAREN HATFIELD

ESE #	SITE/STA	HAZ?	FRACTIONS (CIRCLE)	DATE	TIME	PARAMETER LIST
~~*26~~	~~BGS-MW(S)~~		~~W~~			
~~*27~~	~~BGMW02~~		~~W W~~			
~~*28~~	~~BGMW03~~		~~W W~~			
*29	BGMW04		W W W W	9-8-96	1330	Bio-Assay
~~*30~~	~~LF2MW07~~		~~W W~~			

NOTE -CHANGE OR ENTER SITE ID AS NECESSARY; UP TO 9 ALPHANUMERIC CHARACTERS MAY BE USED
-CIRCLE FRACTIONS COLLECTED. ENTER DATE, TIME, FIELD DATA (IF REQUIRED), HAZARD CODE AND NOTES
-HAZARD CODES: I-IGNITABLE C-CORROSIVE R-REACTIVE T-TOXIC WASTE H-OTHER ACUTE HAZARD; IDENTIFY SPECIFICS IF KNOWN
-PLEASE RETURN COMPLETED LOGSHEETS WITH SAMPLES TO Environmental Science & Engineering, Inc.

SAMPLED BY: (Name/Organization) W. Hupley / ESE

	RELINQUISHED BY (Name/Organization/Date/Time)	VIA:	REC'D BY (Name/Organization/Date/Time)
1	W. Hupley / ESE / 9-8-96 / 1545		Storage
2	W. Hupley / ESE / 9-9-96 / 1600		Fed. ex
3		Fed Ex	Mary Overman / ESE / 9-10-96 / 1330

SAMPLER: Shipped on Ice? Yes/No; I anticipate shipping 4 (#) more samples on 9/10
SAMPLE CUSTODIAN: Custody Seals Used? Yes/No; If Yes, Seals Intact? Yes/No Interior Temp? ___Deg C
Preservatives Audited? Yes/No Any Problems? Yes/No; If Yes, describe:

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA Form No.: 021
Effective: FEB 1993

SUBJECT: WATER HARDNESS WORKSHEET

Sponsor: Ft. Sheridan Project Number: 490 2087-0630-3100

Test Substance: Well water (groundwater) Test Species: P. promelas

Data By: MO Date: 9/11/96 Time: 1030

Normality of EDTA Titrant: 0.01 M

Correction Factor (based on standardization of EDTA Titrant): 0.99

Test Conc'n (units)	Sample Volume (mL)	Dilute to (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL)	Total Titrant Used (mL)	TOTAL HARDNESS (mg/L) [corrected]
Mod. hard recon water	100	—	0.0	7.6	7.6	75
100% LF 2MW06	100	—	0.0	77.2	77.2	764
100% LF2MW08	⊛ ~~100~~ 25 ~~50~~	100	0.0	21.6	21.6	855
100% LF2MW09	⊛ ~~100~~ 25	100	0.0	17.7	17.7	701
100% B6MW02	⊛ ~~100~~ 25	100	0.0	14.3	14.3	566
100% B6MW03	⊛ ~~100~~ 25	100	0.0	12.1	12.1	479
100% B6MW04	⊛ ~~100~~ 25	100	0.0	9.0	9.0	356
	⊛ MO	9/11/96 (WI)	- samples diluted due to high readings.			
	⊛ MO	9/11/96 (WI)				

Calculation of Total Hardness (mg/L as CaCO3): A x B x 1,000 / mL Sample

where A = mL of Titrant, and
B = mg CaCO3 equivalent to 1.00 mL EDTA Titrant
(1 mg CaCO3 = 1 mL EDTA Titrant)

Total Hardness x Correction Factor = [corrected] Total Hardness

SUBJECT: WATER ALKALINITY WORKSHEET

Sponsor: Ft. Sheridan — Project Number: 4902087-0630-3100
Test Substance: well water (groundwater) — Test Species: P. promelas

Data By: MO — Date: 9/11/96 — Time: 1030

Normality of H2SO4 (Sulfuric Acid): 0.02N

Correction Factor (based on standardization of H2SO4 titrant): 1.0

Test Concns (define units)	Sample Volume (mL)	Dilute To (mL)	Initial Buret Reading (mL)	Final Buret Reading (mL) To pH 4.5	Final Buret Reading (mL) To pH 4.2	Titrant Used (mL)	Total Alkalinity (mg/L as CaCO3)
mod. hard recon water	100	—	0.0	6.3	—	6.3	64
100% LF2MW09 @ 6	100	—	0.0	36.3	—	36.3	367
100% LF2MW08	25	100	0.0	9.8	—	9.8	396
100% LF2MW09	25	100	0.0	8.4	—	8.4	339
100% BGMW02	25	100	0.0	8.8	—	8.8	356
100% BGMW03	25	100	0.0	6.1	—	6.1	246
100% BGMW04	25	100	0.0	8.9	—	8.9	360
	@ MO 9/11/96 (WI)						

Calculation of Total Alkalinities > 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{B \times N \times 50{,}000}{\text{mL sample}}$$

where B = mL titrated
N = normality of acid

Total Alkalinity x Correction Factor = [corrected] Total Alkalinity

Calculation of Total Alkalinities < 20 mg/L as CaCO3:

$$\text{Total Alkalinity} = \frac{(2B-C) \times N \times 50{,}000}{\text{mL sample}}$$

where B = total mL titrant to pH 4.5
C = total mL titrant to pH 4.2
N = normality of acid

Appendix B: *P. promelas* Test Data

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page:
ESE QA Form: 097
Effective: January 1993

SUBJECT: TOXICITY TEST DATA SHEET

Client: Ft. Sheridan

Project Number: 4902087-0630-3100

Test Material

See Page 136,137 of Effluent Log for Test Material Information

Test Conditions

[ ] Preliminary
[X] Definitive
[ ] Screening

[X] Static [ ] Flow-through

Duration : 96 Hours

Test Animal History

Species : Pimephales promelas
Batch Number : 96-55
Age / Life Stage : 7 Days
Date Acclimation / Maintenance Began : 9/10/96
See Page 110 of Fish Holding Log for raw data.
Mortality (%) 48 Hrs prior to testing: <1 %

Dilution Water: Moderately Hard Reconstituted water

Lighting : [X] Fluorescent [ ] Incandescent
Photoperiod : 16 hr Light : 8 hr Dark

Test Container Dimensions (mm): 100 L x — W x 50 H
Test Solution Height : 4 cm
Test Containers : [ ]Open [X]Covered
Test Container Volume : 0.34 Liters
Diluent Volume : 0.20 Liters

Test Area Used	Temperature (C)	Salinity (ppt)
Waterbath 2	20 +/- 1	NA +/-

Reps / Concentration : 2
Animals / Replicate : 10

Protocol Followed: EPA-600/4-90/027F

Concentrations Based on: [ ] A.I. [X] W.M.

Container Composition: [X] Glass [ ] Plastic

Test Concentrations: (Units = %):	Control	6.25	12.5	25	50	100		
Amount Dilution Water Added (mL):	400	375	350	300	200	—		
Amount Effluent Added (mL):	N/A	25	50	100	200	400		

Additional Observations: Ground water samples LF2MW07, LF2MW08, LF2MW09, BGMW02, BGMW03, BGMW04. MO 9/11/96 (WED)

Data By: MO Date: 9/10/96

FORM: EFF93

Project: 4902087-0630-3100

DAILY LOG

9/10/96 MO - Six samples of groundwater from Ft Sheridan were received at chemistry check-in + transfered to toxicology lab. Each water sample for bioassay testing consisted of 4 x 1-liter amber glass jars. A portion of each sample was transferred to separate glass vessels to warm to test temperature. The samples were not aerated at any time. Upon reaching test temp, each sample was used to prepare a dilution series. Separate sets of measuring + holding vessels were used to avoid cross-contamination. Water quality was measured and the test organisms were added indiscriminately to the test chambers. P. promelas were in normal condition at test initiation and were fed brine shrimp during pre-test holding. MM-1 was set up to monitor temperature in waterbath 2. BGMW02 + BGMW03 were cloudy. The test organisms exhibited no signs of stress upon addition to the test solutions.

9/11/96 CR Test monitored + observed. mm-1 reads min 19.0 C; max 21.0°C; Reset

NOTE: Thin clear film (small amounts) on surface of 9/11 samples except BGMW03.

9/12/96 CR TEST monitored + observed Test solutions renewed with samples received on 9/10/96. mm-1 reads min 20.0°C max 20.1°C Reset.

P. promelas were fed 0.10 mL brine shrimp/rep ~2 hours prior to renewal.

9/13/96 MO - Tests monitored + observed. MM-1 reads min: 20.0°C max: 20.1°C Reset: All 100% exposures of all samples, except BGMW03, have slight film on surface.

Project: 490 2087-0630-3100

DAILY LOG

9/14/96 MO – Acute toxicity tests terminated. MM-1 reads min: 20.0 max: 20.2°C. There is a slight film / precipitate on the surface of all of the 100% exposures of groundwater. The film / precipitate is most prominent in samples LF2MW08 and BGMW02. These two samples also have a considerable amount of precipitate on the bottom of the 100% test chambers. The surviving P. promelas in the groundwater exposures appear normal in appearance + behavior as compared to the control organisms.

ACUTE TOXICITY DATA SHEET - WATER QUALITY DATA

SPONSOR: Ft. Sheridan | PROJECT NUMBER: 4902087-0630-3100

TEST SUBSTANCE: Groundwater / LF2MW02 & 6 (no 9/10/96 (DS)) | TEST SPECIES: P. promelas

NOMIN CONCN (%) mg/L µg/L	REP	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN
DATE		9/10/96				9/11/96				9/12/96 (CLP)				9/12/96 (DEW)				9/13/96				9/14/96			
TIME		1445				1130				1100				1100				1045				1330			
INIT.		MO				CR				CR/MO				CR/MO				MO				MO			
Control	A	20.1	7.8	8.4	285	20.5	7.5	8.4	—	20.2	7.5	8.5	—	20.3	7.7	8.7	—	20.2	7.5	8.4	—	20.3	7.5	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6.25	A	20.1	7.4	8.4	—	20.4	7.5	8.1	—	20.2	7.5	8.5	—	20.2	7.5	8.7	—	20.1	7.5	8.4	—	20.3	7.6	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12.5	A	20.1	7.3	8.4	—	20.5	7.6	8.2	—	20.2	7.6	8.5	—	20.2	7.3	8.6	—	20.1	7.7	8.4	—	20.3	7.8	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	A	20.1	7.2	8.4	—	20.5	7.7	8.3	—	20.1	7.8	8.5	—	20.2	7.2	8.7	—	20.1	7.7	8.4	—	20.2	7.9	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	A	20.2	7.1	8.1	—	20.6	7.8	8.3	—	20.1	7.8	8.5	—	20.1	7.1	8.8	—	20.1	7.8	8.4	—	20.2	8.0	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	A	20.3	6.9	7.4	1300	20.5	7.8	8.3	—	20.1	7.9	8.5	—	20.1	6.9	9.0	—	20.1	7.7	8.3	—	20.2	7.7	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INST/METH		FS 5	SA 220 A	DO 1	Sal 3	FS 5	SA 220 A	DO 1	Sal —	FS 5	SA 220 A	DO 1	—	FS 5	SA 220 A	DO 1	—	FS 5	SA 220 A	DO 1	—	FS 5	SA 220 A	DO 1	—

mw CR 9-19-96

KEY

TEMP - Temperature (°C)
SL - Salinity (ppt)
pH - standard units

DO - Dissolved oxygen (mg/L)
CN - Conductivity (µmhos/cm)
INST - Instrument

INIT. - Initials
REP - Replicate
METH - Method

ACUTE TOXICITY DATA SHEET - WATER QUALITY DATA

SPONSOR: Ft. Sheridan | PROJECT NUMBER: 4902087-0630-3100

TEST SUBSTANCE: Groundwater / LF2MW08 | TEST SPECIES: P. promelas

NOMIN CONCN (%) mg/L µg/L	REP	DATE 9/10/96 TIME 1445 INIT. MO				DATE 9/11/96 TIME 1130 INIT. CR				DATE 9/12 AM 96 TIME 1100 INIT. CR/MO				DATE 9/12 PM 96 TIME 1100 INIT. CR/MO				DATE 9/13/96 TIME 1045 INIT. MO				DATE 9/14/96 TIME 1330 INIT. MO			
		TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN
Control	A	20.1	7.8	8.4	285	20.5	7.5	8.4	—	20.2	7.5	8.5	—	20.3	7.7	8.7	—	20.2	7.5	8.4	—	20.3	7.5	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6.25	A	20.1	7.4	8.3	—	20.3	7.6	8.1	—	20.1	7.7	8.4	—	20.2	7.5	8.6	—	20.1	7.6	8.4	—	20.3	7.7	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12.5	A	20.1	7.3	8.3	—	20.5	7.8	8.2	—	20.1	7.8	8.3	—	20.2	7.3	8.6	—	20.1	7.7	8.4	—	20.3	7.8	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	A	20.1	7.2	8.2	—	20.5	7.8	8.2	—	20.1	7.8	8.3	—	20.2	7.2	8.7	—	20.1	7.7	8.3	—	20.3	7.9	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	A	20.1	7.1	8.0	—	20.6	7.9	8.2	—	20.1	7.8	8.3	—	20.2	7.1	8.7	—	20.1	7.8	8.2	—	20.2	7.8	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	A	20.3	7.0	7.6	390	20.6	7.7	8.3	—	20.1	7.7	8.4	—	20.2	7.0	8.9	—	20.1	7.5	8.2	—	20.2	7.6	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INST/METH		FS 5	SA 250 A	DO 1	SCT 3	FS 5	SA 250 A	DO 1	—	FS 5	SA 250 A	DO 1	—	FS 5	SA 250 A	DO 1	—	FS 5	SA 250 A	DO 1	—	FS 5	SA 250 A	DO 1	—

KEY

TEMP - Temperature (°C)
SL - Salinity (ppt)
pH - standard units

DO - Dissolved oxygen (mg/L)
CN - Conductivity (µmhos/cm)
INST - Instrument

INIT. - Initials
REP - Replicate
METH - Method

ACUTE TOXICITY DATA SHEET - WATER QUALITY DATA

SPONSOR: Ft. Sheridan | PROJECT NUMBER: 4902087-0630-3100

TEST SUBSTANCE: Groundwater / LF2MW09 | TEST SPECIES: P. promelas

		9/10/96				9/11/96				9/12/96				9/12/96				9/13/96				9/14/96			
DATE																									
TIME		1445				1130				1100				1100				1045				1330			
INIT.		MO				CR				CR/MO				CR/MO				MO				MO			
NOMIN CONCN (%) mg/L µg/L	REP	TEMP	pH	DO	SL or (CN)	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN
Control	A	20.1	7.8	8.4	285	20.5	7.5	8.4	—	20.2	7.5	8.5	—	20.3	7.7	8.7	—	20.2	7.5	8.4	—	20.3	7.6	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6.25	A	20.1	7.4	8.3	—	20.5	7.7	8.1	—	20.1	7.7	8.3	—	20.3	7.5	8.7	—	20.1	7.4	8.4	—	20.3	7.7	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12.5	A	20.1	7.3	8.2	—	20.5	7.8	8.2	—	20.1	7.8	8.3	—	20.3	7.3	8.7	—	20.1	7.7	8.4	—	20.3	7.9	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	A	20.1	7.2	8.2	—	20.6	7.8	8.2	—	20.1	7.9	8.2	—	20.2	7.2	8.7	—	20.1	7.8	8.4	—	20.2	8.0	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	A	20.1	7.1	8.2	—	20.6	7.9	8.3	—	20.1	8.0	8.3	—	20.2	7.1	8.7	—	20.1	7.8	8.2	—	20.2	8.0	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	A	20.2	7.0	7.7	1200	20.6	7.9	8.3	—	20.1	7.9	8.3	—	20.2	7.0	8.9	—	20.1	7.7	8.3	—	20.2	7.8	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INST/METH		FS 5	SA 200 A	DO 1	SCT 3	FS 5	SA 200 A	DO 1	—	FS 5	SA 200 A	DO	—	FS 5	SA 200 A	DO	—	FS 5	SA 200 A	DO 1	—	FS 5	SA 200 A	DO 1	—

KEY

TEMP - Temperature (°C)
SL - Salinity (ppt)
pH - standard units

DO - Dissolved oxygen (mg/L)
CN - Conductivity (µmhos/cm)
INST - Instrument

INIT. - Initials
REP - Replicate
METH - Method

ACUTE TOXICITY DATA SHEET - WATER QUALITY DATA

SPONSOR: Ft. Sheridan | **PROJECT NUMBER:** 4902087-0630-3100

TEST SUBSTANCE: Groundwater / BGMW02 | **TEST SPECIES:** P. promelas

DATE		9/10/96				9/11/96				9/12/96				9/12/96				9/13/96				9/14/96			
TIME		1445				1130				1100				1100				1045				1330			
INIT.		MO				CL				CRL/MO				CRL/MO				MO				MO			
NOMIN CONCN (%, mg/L, µg/L)	**REP**	**TEMP**	**pH**	**DO**	**SL or CN**	**TEMP**	**pH**	**DO**	**SL or CN**	**TEMP**	**pH**	**DO**	**SL or CN**	**TEMP**	**pH**	**DO**	**SL or CN**	**TEMP**	**pH**	**DO**	**SL or CN**	**TEMP**	**pH**	**DO**	**SL or CN**
Control	A	20.1	7.8	8.4	285	20.5	7.5	8.4	—	20.2	7.5	8.5	—	20.3	7.7	8.7	—	20.2	7.5	8.4	—	20.3	7.6	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6.25	A	20.1	7.6	8.2	—	20.3	7.8	8.4	—	20.2	7.8	8.4	—	20.3	7.7	8.6	—	20.1	7.7	8.4	—	20.3	7.7	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12.5	A	20.1	7.5	8.2	—	20.3	7.9	8.4	—	20.2	7.9	8.4	—	20.3	7.6	8.5	—	20.2	7.9	8.3	—	20.3	7.9	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	A	20.1	7.5	8.1	—	20.4	8.0	8.3	—	20.2	8.1	8.3	—	20.2	7.5	8.2	—	20.1	8.0	8.4	—	20.3	8.0	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	A	20.1	7.4	7.7	—	20.5	8.1	8.3	—	20.2	8.2	8.3	—	20.2	7.5	8.0	—	20.1	8.0	8.2	—	20.3	8.1	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	A	20.2	7.3	6.8	1100	20.5	7.9	8.3	—	20.2	8.0	8.3	—	20.2	7.4	7.4	—	20.1	7.8	8.2	—	20.2	8.0	8.3	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INST/METH		FS 5	SA 290 A	DO 1	SCT 3	FS 5	SA 290 A	DO 1	—	FS 5	SA 290 A	DO 1	—	FS 5	SA 290 A	DO 1	—	FS 5	SA 290 A	DO 1	—	FS 5	SA 290 A	DO 1	—

KEY

TEMP - Temperature (°C)
SL - Salinity (ppt)
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DO - Dissolved oxygen (mg/L)
CN - Conductivity (µmhos/cm)
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INIT. - Initials
REP - Replicate
METH - Method

Environmental Science & Engineering, Inc.
Toxicology Laboratory
Gainesville, Florida

Page: ___
ESE QA Form Number: 016
Effective: 5/1/96

ACUTE TOXICITY DATA SHEET - WATER QUALITY DATA

SPONSOR: Ft. Sheridan | PROJECT NUMBER: 490 2087 - 0630 - 3100

TEST SUBSTANCE: Groundwater / BGMW03 | TEST SPECIES: P. promelas

NOMIN CONCN (%) mg/L µg/L	REP	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN
	DATE	9/10/96				9/11/96				9/12/96				9/12/96				9/13/96				9/14/96			
	TIME	1445				1130				1100				1100				1045				1330			
	INIT.	MO				CL				CL/MO				CL/MO				MO				MO			
Control	A	20.1	7.8	8.4	285	20.5	7.5	8.4	—	20.2	7.5	8.5	—	20.3	7.7	8.7	—	20.2	7.5	8.4	—	20.3	7.5	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6.25	A	20.1	7.8	8.2	—	20.3	7.9	8.4	—	20.2	7.9	8.4	—	20.3	7.7	8.7	—	20.1	7.7	8.4	—	20.3	7.8	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12.5	A	20.1	7.7	8.3	—	20.3	7.9	8.3	—	20.2	8.0	8.3	—	20.3	7.7	8.6	—	20.1	7.8	8.3	—	20.3	7.9	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	A	20.1	7.7	8.3	—	20.4	7.9	8.2	—	20.2	8.0	8.3	—	20.2	7.7	8.6	—	20.1	7.9	8.3	—	20.3	7.9	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	A	20.1	7.6	8.5	—	20.4	8.0	8.2	—	20.2	8.1	8.3	—	20.2	7.6	8.7	—	20.1	7.9	8.3	—	20.2	8.0	8.3	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	A	20.3	7.5	8.8	1075	20.4	8.1	8.1	—	20.2	8.1	8.3	—	20.2	7.5	8.9	—	20.1	8.0	8.0	—	20.2	8.1	8.2	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INST/METH		FS S	SA 290 A	DO 1	SC 3	FS S	SA 290 A	DO 1	—	FS S	SA 290 A	DO 1	—	FS S	SA 290 A	DO 1	—	FS S	SA 290 A	DO 1	—	FS S	SA 290 A	DO 1	—

KEY

TEMP - Temperature (°C)
SL - Salinity (ppt)
pH - standard units

DO - Dissolved oxygen (mg/L)
CN - Conductivity (µmhos/cm)
INST - Instrument

INIT. - Initials
REP - Replicate
METH - Method

ACUTE TOXICITY DATA SHEET - WATER QUALITY DATA

SPONSOR: Ft. Sheridan | PROJECT NUMBER: 4902087-0630-3100

TEST SUBSTANCE: Groundwater / BGMW 04 | TEST SPECIES: P. promelas

NOMIN CONCN (%, mg/L, µg/L)	REP	TEMP	pH	DO	SL or (CN)	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN	TEMP	pH	DO	SL or CN
DATE		9/10/96				9/11/96				9/12/96				9/12/96				9/13/96				9/14/96			
TIME		1445				1130				1100				1100				1045				1330			
INIT.		MO				CL				CL/MO				CL/MO				MO				MO			
Control	A	20.1	7.8	8.4	285	20.5	7.5	8.4	—	20.2	7.5	8.5	—	20.3	7.7	8.7	—	20.2	7.5	8.4	—	20.3	7.5	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6.25	A	20.1	7.6	8.3	—	20.3	7.9	8.4	—	20.2	7.9	8.4	—	20.3	7.7	8.7	—	20.1	7.7	8.4	—	20.3	7.8	8.5	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12.5	A	20.1	7.5	8.0	—	20.3	7.9	8.3	—	20.2	8.0	8.3	—	20.3	7.6	8.7	—	20.1	7.8	8.4	—	20.3	7.9	8.4	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	A	20.1	7.5	8.1	—	20.3	8.0	8.3	—	20.2	8.1	8.3	—	20.3	7.5	8.7	—	20.2	7.9	8.3	—	20.3	8.0	8.3	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	A	20.1	7.4	8.3	—	20.3	8.1	8.3	—	20.2	8.2	8.3	—	21.2	7.4	8.7	—	20.1	8.0	8.2	—	20.2	8.1	8.3	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	A	20.2	7.3	8.4	720	20.4	7.9	8.3	—	20.1	8.0	8.3	—	20.2	7.3	8.7	—	20.1	7.9	8.0	—	20.2	8.0	8.2	—
	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INST/METH		FS 5	SA 296 A	DO 1	SC 3	FS 5	SA 296 A	DO 1	—	FS 5	SA 296 A	DO 1	—	FS 5	SA 296 A	DO 1	—	FS 5	SA 296 A	DO 1	—	FS 5	SA 296 A	DO 1	—

KEY

TEMP - Temperature (°C)
SL - Salinity (ppt)
pH - standard units

DO - Dissolved oxygen (mg/L)
CN - Conductivity (µmhos/cm)
INST - Instrument

INIT. - Initials
REP - Replicate
METH - Method

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Gainesville, Florida

PAGE:
ESE QA FORM: 015B
EFFECTIVE: JUNE 1990

(LF2MW06)

Proj. 4902087-0630-3100 Ft. Sheridan LF2MW06 / P. promelas

MO 9/12/96 (WP)

SUBJECT: ACUTE TOXICITY DATA SHEET-SURVIVAL

		0-HOUR		24-HOUR		48-HOUR		72-HOUR		96-HOUR	
DATE		9/10/96		9/11/96		9/12/96		9/13/96		9/14/96	
ANIMALS FED		No		NO		2 hours prior to renewal		NO		NO	
TIME		1530		1200		1200		1115		1400	
DATA BY		MO		CR		CR/mo		MO		MO	
NOMINAL CONCENTRATION (%) mg/L ug/L	REP	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE
CONTROL	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
6.25	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
12.5	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
25	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
50	A	N	10	N	10	N	10	N	10	1 Dead	9
	B	N	10	N	10	N	10	N	10	N	10
100	A	N	10	1 DEAD	9	N	9	N	9	N	9
	B	N	10	N	10	N	10	N	10	N	10
							MO 9/13/96 (WP)				

OBSERVATION KEY

NONE- NORMAL CONDITIONS
AS- AT THE SURFACE
MSP- MUSCLE SPASM
LE- LOSS OF EQUILIBRIUM
LETH- LETHARGIC
HYP- HYPERACTIVE
ERR- ERRACTIC
GY- GYRATING
DRK- DARK PIGMENTATION
HEM- HEMORRHAGIC
RAR- RAPID RESPIRATION
G- GULPING
LT- LIGHT PIGMENTATION
OBS- OBSERVATION
PRE- PRECIPITATE
FOS- FILM ON SURFACE
UC- UNDISSOLVED CHEMICAL
CLDY- CLOUDY SOLUTION
NF- NOT FOUND
BS- BRINE SHRIMP

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PAGE:
ESE QA FORM: 015B
EFFECTIVE: JUNE 1990

Proj. 490287-0630-3100 Ft. Sheridan LF2MW08 / P. Gromelos

SUBJECT: ACUTE TOXICITY DATA SHEET-SURVIVAL

		0-HOUR		24-HOUR		48-HOUR		72-HOUR		96-HOUR	
DATE		9/10/96		9/11/96		9/12/96		9/13/96		9/14/96	
ANIMALS FED		NO		NO		2 hours prior to renewal		NO		NO	
TIME		1530		1200		1200		1115		1400	
DATA BY		MO		CR		CR/MO		MO		MO	
NOMINAL CONCENTRATION % mg/L ug/L	REP	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE
CONTROL	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
6.25	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
12.5	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
25	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	1 Dead	9	N	9 @ 10	N	9
50	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
100	A	N	10	1 Dead	9	N	9	N	9	N	9
	B	N	10	N	10	N	10	N	10	N	10
									@ end 9/13/96 (WS)		

OBSERVATION KEY

NONE- NORMAL CONDITIONS
AS- AT THE SURFACE
MSP- MUSCLE SPASM
LE- LOSS OF EQUILIBRIUM
LETH- LETHARGIC
HYP- HYPERACTIVE
ERR- ERRACTIC
GY- GYRATING
DRK- DARK PIGMENTATION
HEM- HEMORRHAGIC
RAR- RAPID RESPIRATION
G- GULPING
LT- LIGHT PIGMENTATION
OBS- OBSERVATION
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PAGE:
ESE QA FORM: 015B
EFFECTIVE: JUNE 1990

Proj. 4902087-0630-3100 Ft. Sheridan LF2MW09 / P. promelas

SUBJECT: ACUTE TOXICITY DATA SHEET-SURVIVAL

		0-HOUR		24-HOUR		48-HOUR		72-HOUR		96-HOUR	
DATE		9/10/96		9/11/96		9/12/96		9/13/96		9/14/96	
ANIMALS FED		NO		NO		2 hours prior to test renewal		NO		NO	
TIME		1530		1200		1200		1115		1400	
DATA BY		MO		CR		CR/MO		MO		MO	
NOMINAL CONCENTRATION (%) mg/L ug/L	REP	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE
CONTROL	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
6.25	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
12.5	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
25	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
50	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	1 Dead	9	N	9	N	9
100	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	1 DEAD	9	1 Dead	8	N	8	N	8

OBSERVATION KEY

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PAGE:
ESE QA FORM: 015B
EFFECTIVE: JUNE 1990

Proj. 4902087-0630-3100 Ft. Sheridan BGMW02/P. promolas

SUBJECT: ACUTE TOXICITY DATA SHEET-SURVIVAL

		0-HOUR		24-HOUR		48-HOUR		72-HOUR		96-HOUR	
DATE		9/10/96		9/11/96		9/12/96		9/13/96		9/14/96	
ANIMALS FED		No		NO		2 hours prior to renewal		NO		NO	
TIME		1530		1200		1200		1115		1400	
DATA BY		MO		CR		CR/MO		MO		MO	
NOMINAL CONCENTRATION (5) mg/L ug/L	REP	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE
CONTROL	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10
6.25	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10
12.5	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10
25	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	1 Dead	9	N	9	N	9
50	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	1 Dead	9	N	9	N	9
100	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	1 Dead	9

OBSERVATION KEY

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LETH- LETHARGIC
HYP- HYPERACTIVE
ERR- ERRACTIC
GY- GYRATING
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Gainesville, Florida

PAGE:
ESE QA FORM: 015B
EFFECTIVE: JUNE 1990

Proj. 4902087-0630-3100 Ft. Sheridan BGMW03 / P. promelas

SUBJECT: ACUTE TOXICITY DATA SHEET-SURVIVAL

		0-HOUR		24-HOUR		48-HOUR		72-HOUR		96-HOUR	
DATE		9/10/96		9/11/96		9/12/96		9/13/96		9/14/96	
ANIMALS FED		NO		NO		2 hrs prior to renewal		NO		NO	
TIME		1530		1206		1200		1115		1400	
DATA BY		MD		CR		CR/MD		MD		MD	
NOMINAL CONCENTRATION (%) mg/L ug/L	REP	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE
CONTROL	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
6.25	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
12.5	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
25	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
50	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	N	10
100	A	N	10	N	10	N	10	N	10	N	10
	B	N	10	N	10	N	10	N	10	1 Dead	9

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Environmental Science and Engineering, Inc.
Gainesville, Florida

PAGE:
ESE QA FORM: 015B
EFFECTIVE: JUNE 1990

Proj. 4902087-0630-3100 Ft. Sheridan BGMW04/P. promelas

SUBJECT: ACUTE TOXICITY DATA SHEET-SURVIVAL

		0-HOUR		24-HOUR		48-HOUR		72-HOUR		96-HOUR	
DATE		9/10/96		9/11/96		9/12/96		9/13/96		9/14/96	
ANIMALS FED		NO		NO		2 hours prior to renewal		NO		NO	
TIME		1530		1200		1200		1115			
DATA BY		MO		CR		CR/MO		MO		MO	
NOMINAL CONCENTRATION % mg/L ug/L	REP	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE	OBS.	NO. ALIVE
CONTROL	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10
6.25	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10
12.5	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10
25	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10
50	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10
100	A	N	10	C	10	N	10	N	10	N	10
	B	N	10	C	10	N	10	N	10	N	10

OBSERVATION KEY

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LETH- LETHARGIC
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Appendix C: **Reference Toxicant Test Data**

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Reference Toxicant Control Chart
Reference Toxicant: Sodium Lauryl Sulfate (SDS)
Species: Pimephales promelas

Run by: MD
Date: 9/30/96

Test No.	LC50 (mg/L)	Date
20	26.4	Sep96
19	28.3	Sep96
18	28.3	July96
17	35.6	May96
16	26.4	May96
15	28.3	Apr96
14	28.3	Apr96
13	26.4	Mar96
12	31.8	Feb96
11	32.8	Dec95
10	28.3	Nov95
9	30.8	Oct95
8	28.3	Sep95
7	32.8	Sep95
6	28	Aug95
5	28.3	July95
4	28.3	May95
3	27.8	Apr95
2	26.4	Mar95
1	30.8	Feb95

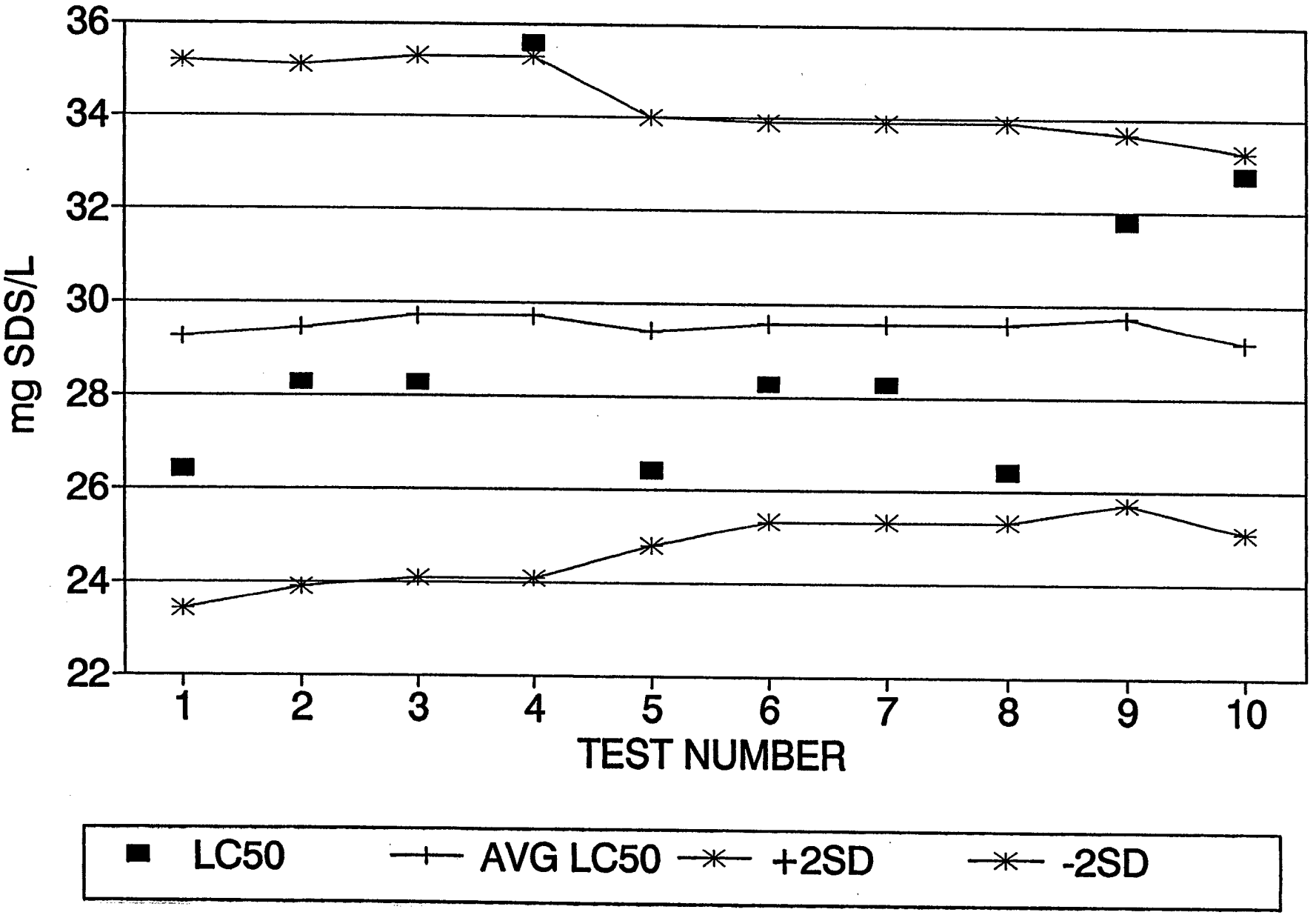
Average LC50(mg/L): 29.1 mg/L

Two X Standard Deviation: 4.9

P. promelas Control Chart

Ref Tox: Lauryl Sulfate (SDS)

MO 9/30/96



TRIMMED SPEARMAN-KARBER METHOD. VERSION 1.5

MD 9/13/96

DATE: 9/12/96 TEST NUMBER: ref tox DURATION: 48 hours
TOXICANT : SDS
SPECIES: P. promelas

RAW DATA: Concentration (mg/L)	Number Exposed	Mortalities
.00	10	0
2.50	10	0
5.00	10	0
10.00	10	0
20.00	10	1
40.00	10	10

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 26.39
95% LOWER CONFIDENCE: 23.14
95% UPPER CONFIDENCE: 30.10

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ____
ESE QA FORM: 097SDS
Effective: January 1993

SUBJECT: REFERENCE TOXICANT TEST DATA SHEET

Client: Misc.

Project Number: Ref TOX

Test Material

Amount SDS: 0.1002 g
Volume of Milli-Q Water: 100 mL
Date Prepared: 9/10/96

Test Conditions

[X] Definitive [ ] Screening
[X] Static
Duration : 48 Hours

Test Animal History

Species : Pimephales promelas
Batch Number : 96-55
Age / Life Stage : 7 Days
Date Acclimation / Maintenance Began : 9/10/96
See Page 110 of Fish Holding Log for raw data.
Mortality (%) 48 Hrs prior to testing: <1 %

Dilution Water: moderately Hard Reconstituted water

Lighting : [X] Fluorescent [ ] Incandescent
Photoperiod : 16 hr Light : 8 hr Dark

Test Container Dimensions (mm): 100 L x — W x 80 H
Test Solution Height : 4 cm
Test Containers : [ ] Open [X] Covered
Test Container Volume : 0.34 Liters
Diluent Volume : 0.20 Liters

Test Area Used	Temperature (C)	Salinity (ppt)
Waterbath 2	20+/- 1	NA +/-

Reps / Concentration : 1
Animals / Replicate : 10

Protocol Followed: SOP-A-004

Concentrations Based on: [ ] A.I. [X] W.M.

Container Composition: [X] Glass [ ] Plastic

Test Concentrations: (Units = mg/L):	Control	2.5	5	10	20	40		
Amount Dilution Water Added (mL):	200	199.5	199	198	196	192		
Amount SDS Stock Added (mL):	N/A	0.5	1	2	4	8		

Additional Observations: _____

Data By: MC Date: 9/10/96

FORM: SDS93

Environmental Science & Engineering, Inc.
Aquatic Toxicology Laboratory
Gainesville, Florida

Page: ___
ESE QA Form No.: 097 SDS
Effective: APR 1993

REFERENCE TOXICANT TEST DATA: DAY 0 and 1

Client: MISC. | Project Number: Ref. Tox. | Species: P. promelas

Nominal Concentration (mg/L)	Date: 9/10/96				Day: 0	
	Time: 1600				Analyst: MO	
	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	2	20.2	—	8.4	7.8
2.5	10	2	—	—	—	—
5	10	2	—	—	—	—
10	10	2	—	—	—	—
20	10	2	—	—	—	—
40	10	2	—	—	—	—
Nominal Concentration (mg/L)	Date: 9/11/96				Day: 1	
	Time: 1200				Analyst: CR	
	# Alive	Obs.	Temp. (C)	Sal. (ppt)	D.O. (mg/L)	pH
Control	10	C	20.5	—	8.4	7.5
2.5	10	C	—	—	—	—
5	10	C	—	—	—	—
10	10	C	—	—	—	—
20	10	C	—	—	—	—
40	0	10 DEAD	20.5	—	8.0	7.7

Environmental Science & Engineering, Inc.
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Gainesville, Florida

Page: ___
ESE QA Form No.: 097 SDS
Effective: APR 1993

REFERENCE TOXICANT TEST DATA: FINAL DAY

Client: Misc. | Project Number: Ref Tox | Species: P. promelas

Date: 9/12/96 | Day: 2

Time: 1600 | Analyst: CR

Nominal Concentration (mg/L)	# Alive	Obs.	Temp.(C)	Sal.(ppt)	D.O.(mg/L)	pH
Control	10	N	20.1	—	8.3	7.6
2.5	10	N	—	—	—	—
5	10	N	—	—	—	—
10	10	N	—	—	—	—
20	9	1 Dead	—	—	—	—
40	—	—	—	—	—	—

FINAL RESULTS

Nominal Concentration (mg/L)	Number Dead
Control	0
2.5	0
5	0
10	0
20	1
40	10

Appendix I

Level III IRDMIS Data--Quality Assurance/Quality Control

Chemical Analytical Data
Surplus Operable Unit
Fort Sheridan, Illinois

Medium

CSO = Chemical Soil.

CSW = Chemical Surface Water.

CSE = Chemical Sediment.

CGW = Chemical Groundwater.

CAT = Chemical Animal Tissue.

SO = Soil.

SW = Surface Water.

Units

C = degrees centigrade.

MMYR = millimeters per year.

MG/KG = milligrams per kilogram.

mg/l = milligrams per liter.

MGL = milligrams per liter.

UGG = micrograms per gram.

UGL = micrograms per liter.

IRDMIS Data Qualifiers

I = The low-spike recovery is high.

J = The low-spike recovery is low.

K = Missed holding times for extraction and preparation.

L = Missed holding time for sample analysis.

M = The high-spike recovery is high.

N = The high-spike recovery is low.

O = Low spike recoveries excessively different.

P = High spike recoveries excessively different.

R = Data is rejected and is not usable.

IRDMIS Flag Codes

1 = Result less than CRL but greater than the Criteria of Detection.

8 = Analyte recovery outside of certified range, but within acceptable limits.

B = Analyte found in the method blank or QC blank as well as sample.

C = Analysis was confirmed.

D = Duplicate analysis.

F = Sample filtered prior to analysis.

I = Interferences in sample cause the quantitation and/or identification to be suspect.

J = Value is estimated.

K = Reported results affected by interferences or high background.

N = Tentatively identified compound with a match greater than 70%.

P = Value is less than the method reporting level but greater than the instrument detection limit.

Q = Confirmatory analysis was performed, sample interference obscured the peak of interest.

R = Non-target compound analyzed for but not detected.

S = Non-target compound analyzed for and detected.

U = Analysis is unconfirmed.

V = Sample was subjected to unusual storage/preparation condition.

X = Analyte concentration is above the upper reporting level.

Z = Non-target compound analyzed for and detected. Used for those analytes which were not performance demonstrated or validated.

EPA Qualifiers (NFG Qualifiers)

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

U = The analyte/compound was analyzed for, but was not detected above the reported sample quantitation limit. Note: The "U" qualifier is also used to indicate elevated detection limits due to blank contamination.

J = The analyte/compound was positively identified above the reported sample quantitation limit, but is considered estimated.

UJ = The analyte/compound is not detected above the reported sample quantitation limit. The reported quantitation limit is approximated and may not represent the actual limit necessary to accurately measure the compound in the sample.

NJ = The analysis indicates the presence of an analyte/compound that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGOA	NP2TB*24	TL	R	0.00	CSO	RNSW	LF2RN02	GTL1/W	07-DEC-95	LT	2.50	UGL				BEI
ES	MHQA	NP2TB*24	AG	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*24	AL	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	40.00	UGL				BEI
		NP2TB*24	BA	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	25.00	UGL				BEI
		NP2TB*24	BE	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*24	CA	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95		141.00	UGL				BEI
		NP2TB*24	CD	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL		J		BEI
		NP2TB*24	CO	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	20.00	UGL				BEI
		NP2TB*24	CR	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	10.00	UGL				BEI
		NP2TB*24	CU	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*24	FE	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95		65.60	UGL				BEI
		NP2TB*24	K	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	550.00	UGL				BEI
		NP2TB*24	MG	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	50.00	UGL				BEI
		NP2TB*24	MN	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*24	NA	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95		232.00	UGL				BEI
		NP2TB*24	NI	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	15.00	UGL				BEI
		NP2TB*24	SB	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	50.00	UGL				BEI
		NP2TB*24	V	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	10.00	UGL				BEI
		NP2TB*24	ZN	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	20.00	UGL				BEI
ES	NEAB	NP2TB*24	111TCE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	112TCE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	11DCE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	11DCLE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	12DCE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	12DCLE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	12DCLP	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	2CLEVE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	ACET	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	BRDCLM	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	C13DCP	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	C2AVE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	C2H3CL	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	C2H5CL	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	C6H6	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	CCL4	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	CH2CL2	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	CH3BR	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	CH3CL	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	CHBR3	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	CHCL3	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	CLC6H5	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	CS2	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	DBRCLM	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	ETC6H5	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	MEC6H5	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	MEK	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	MIBK	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEAB	NP2TB*24	MNBK	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	STYR	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	T13DCP	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	TCLEA	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	TCLEE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	TRCLE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*24	TXYLEN	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*24	UNK026	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	16-NOV-95		40.00	UGL	S			BEI
ES	PELN	NP2TB*24	135TNB	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	13DNB	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	246TNT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	24DNT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.06	UGL				BEI
		NP2TB*24	26DNT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.07	UGL				BEI
		NP2TB*24	2A46DT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	2NT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.20	UGL				BEI
		NP2TB*24	3NT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.20	UGL				BEI
		NP2TB*24	4A26DT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	4NT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.20	UGL				BEI
		NP2TB*24	HMX	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.20	UGL				BEI
		NP2TB*24	NB	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.10	UGL		M		BEI
		NP2TB*24	RDX	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	0.20	UGL	U			BEI
		NP2TB*24	TETRYL	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	08-DEC-95	LT	1.00	UGL				BEI
ES	RIVA	NP2TB*24	245T	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	0.10	UGL		JN		BEI
		NP2TB*24	245TP	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	0.10	UGL		N		BEI
		NP2TB*24	24D	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	24DB	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	DALA	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	DCAMBA	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	DICP	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	DINO	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	MCPA	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	3.00	UGL				BEI
		NP2TB*24	MCPP	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	05-DEC-95	LT	3.00	UGL				BEI
ES	SCBB	NP2TB*24	ABHC	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	ACLDAN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	AENSLF	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	ALDRN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	BBHC	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	BENSLF	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	CLDAN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.03	UGL				BEI
		NP2TB*24	DBHC	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	DLDRN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	ENDRN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	ENDRNA	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.02	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
					0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCBB	NP2TB*24	GCLDAN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	HPCL	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	HPCLE	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	LIN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	MEXCLR	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	PCB016	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*24	PCB221	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*24	PCB232	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*24	PCB242	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*24	PCB248	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*24	PCB254	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*24	PCB260	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*24	PPDDD	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	PPDDE	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	PPDDT	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	TXPHEN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	07-DEC-95	LT	0.60	UGL				BEI
ES	TFOA	NP2TB*24	SE	R	0.00	CSO	RNSW	LF2RN02	GSE1/W	08-DEC-95	LT	2.50	UGL				BEI
ES	UAOA	NP2TB*24	CYN	R	0.00	CSO	RNSW	LF2RN02	CYN1/W	20-NOV-95	LT	2.50	UGL				BEI
ES	UGPA	NP2TB*24	HG	R	0.00	CSO	RNSW	LF2RN02	HGC1/W	30-NOV-95	LT	0.20	UGL				BEI
ES	VFIB	NP2TB*24	124TCB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	12DCLB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	13DCLB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	14DCLB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	245TCP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	246TCP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	24DCLP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	24DMPN	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	24DNP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	30.00	UGL				BEI
		NP2TB*24	24DNT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	26DNT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	2CLP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	2CNAP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	2MNAP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	2MP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	2NANIL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*24	2NP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	33DCBD	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*24	3NANIL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*24	46DN2C	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	20.00	UGL				BEI
		NP2TB*24	4BRPPE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	4CANIL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	4CL3C	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	4CLPPE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFIB	NP2TB*24	4MP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	4NANIL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*24	4NP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	20.00	UGL				BEI
		NP2TB*24	ANAPNE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	ANAPYL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	ANTRC	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	B2CEXM	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	B2CIPE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	B2CLEE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	B2EHP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	BAANTR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	BAPYR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	BBFANT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	BBZP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	BENZOA	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	20.00	UGL				BEI
		NP2TB*24	BGHIPY	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	BKFANT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	BZALC	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	CARBAZ	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	CHRY	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	CL6BZ	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	CL6CP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*24	CL6ET	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	DBAHA	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	DBZFUR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	DEP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	DMP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	DNBP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	DNOP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	FANT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	FLRENE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	HCBD	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	ICDPYR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	ISOPHR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	NAP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	NB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	NNDNPA	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	NNDPA	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	PCP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*24	PHANTR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	PHENOL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	PYR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
ES	WAOA	NP2TB*24	AS	R	0.00	CSO	RNSW	LF2RN02	GAS1/W	07-DEC-95	LT	2.50	UGL				BEI
ES	YAOA	NP2TB*24	PB	R	0.00	CSO	RNSW	LF2RN02	GPB1/W	08-DEC-95		2.30	UGL				BEI
ES	ZJIA	NP2TB*24	1MNAP	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJIA	NP2TB*24	2MNAP	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	ANAPNE	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	ANAPYL	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	ANTRC	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	BAANTR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.02	UGL				BEI
		NP2TB*24	BAPYR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	BBFANT	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	BGHIPY	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	BKFANT	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.01	UGL				BEI
		NP2TB*24	CHRY	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*24	DBAHA	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.05	UGL				BEI
		NP2TB*24	FANT	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.02	UGL				BEI
		NP2TB*24	FLRENE	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.50	UGL				BEI
		NP2TB*24	ICDPYR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.05	UGL				BEI
		NP2TB*24	NAP	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI
		NP2TB*24	PHANTR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.50	UGL				BEI
		NP2TB*24	PYR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI

** End of Report - 197 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGEB	SNWF3*30	TL	R	0.00	CSW	RNSW	RB-SW	GTL1/W	10-OCT-96	LT	2.50	UGL	F			BEI
ES	MHDC	SNWF3*30	AG	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL	F			BEI
		SNWF3*30	AL	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96		47.90	UGL	F			BEI
		SNWF3*30	B	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	50.00	UGL	F			BEI
		SNWF3*30	BA	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	25.00	UGL	F			BEI
		SNWF3*30	BE	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL	F			BEI
		SNWF3*30	CA	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96		969.00	UGL	F			BEI
		SNWF3*30	CD	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL	F			BEI
		SNWF3*30	CO	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	20.00	UGL	F			BEI
		SNWF3*30	CR	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	10.00	UGL	F			BEI
		SNWF3*30	CU	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL	F			BEI
		SNWF3*30	FE	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	45.00	UGL	F			BEI
		SNWF3*30	K	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	550.00	UGL	F			BEI
		SNWF3*30	MG	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96		352.00	UGL	F			BEI
		SNWF3*30	MN	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL	F			BEI
		SNWF3*30	NA	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96		783.00	UGL	F	I		BEI
		SNWF3*30	NI	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	15.00	UGL	F			BEI
		SNWF3*30	SB	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	50.00	UGL	F			BEI
		SNWF3*30	V	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	10.00	UGL	F			BEI
		SNWF3*30	ZN	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	20.00	UGL	F			BEI
ES	TFEB	SNWF3*30	SE	R	0.00	CSW	RNSW	RB-SW	GSE1/W	14-OCT-96	LT	2.50	UGL	F			BEI
ES	UGDC	SNWF3*30	HG	R	0.00	CSW	RNSW	RB-SW	HGC1/W	08-OCT-96	LT	0.20	UGL	F			BEI
ES	WAEB	SNWF3*30	AS	R	0.00	CSW	RNSW	RB-SW	GAS1/W	17-OCT-96	LT	2.50	UGL	F			BEI
ES	YAEB	SNWF3*30	PB	R	0.00	CSW	RNSW	RB-SW	GPB1/W	10-OCT-96	LT	2.00	UGL	F			BEI

** End of Report - 24 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGPA	SNGW*33	TL	R	0.00	CGW	RNSW	RINSE	GTL1/W	03-JAN-96	LT	2.50	UGL				BEI
ES	MHTA	SNGW*33	AG	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*33	AL	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95		72.00	UGL				BEI
		SNGW*33	B	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	50.00	UGL				BEI
		SNGW*33	BA	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	25.00	UGL				BEI
		SNGW*33	BE	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*33	CA	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95		136.00	UGL				BEI
		SNGW*33	CD	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*33	CO	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	20.00	UGL				BEI
		SNGW*33	CR	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	CU	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*33	FE	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95		72.40	UGL				BEI
		SNGW*33	K	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	550.00	UGL				BEI
		SNGW*33	MG	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	50.00	UGL				BEI
		SNGW*33	MN	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*33	NA	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95		229.00	UGL				BEI
		SNGW*33	NI	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	15.00	UGL				BEI
		SNGW*33	SB	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	50.00	UGL				BEI
		SNGW*33	V	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	ZN	R	0.00	CGW	RNSW	RINSE	ICP1/W	29-DEC-95	LT	20.00	UGL				BEI
ES	NEHB	SNGW*33	111TCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	112TCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	11DCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	11DCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	12DCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	12DCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	12DCLP	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	2CLEVE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	ACET	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95		24.00	UGL				BEI
		SNGW*33	BRDCLM	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	C13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	C2AVE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	C2H3CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	C2H5CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	C6H6	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CCL4	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CH2CL2	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	CH3BR	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CH3CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CHBR3	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CHCL3	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CLC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CS2	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	DBRCLM	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	ETC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	MEC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	MEK	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Media Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEHB	SNGW*33	MIBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	MNBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	STYR	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	T13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	TCLEA	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	TCLEE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	TRCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	TXYLEN	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	UNK026	R	0.00	CGW	RNSW	RINSE	VMS2/W	06-DEC-95		40.00	UGL	S			BEI
ES	PEYN	SNGW*33	135TNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	13DNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	246TNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	24DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.06	UGL				BEI
		SNGW*33	26DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.07	UGL				BEI
		SNGW*33	2A46DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	2NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*33	3NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*33	4A26DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	4NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*33	HMX	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*33	NB	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.10	UGL		MI		BEI
		SNGW*33	RDX	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*33	TETRYL	R	0.00	CGW	RNSW	RINSE	EXL1/W	17-DEC-95	LT	1.00	UGL				BEI
ES	RIZA	SNGW*33	245T	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	245TP	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	24D	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	24DB	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	DALA	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	DCAMBA	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	DICP	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	DINO	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*33	MCPA	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	3.00	UGL				BEI
		SNGW*33	MCPP	R	0.00	CGW	RNSW	RINSE	HBG1/W	23-DEC-95	LT	3.00	UGL				BEI
ES	SCOB	SNGW*33	ABHC	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	ACLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	AENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	ALDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL		JN		BEI
		SNGW*33	BBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	BENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	CLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.03	UGL				BEI
		SNGW*33	DBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	DLDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	ENDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	ENDRNA	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.02	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCOB	SNGW*33	ESFSO4	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	GCLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	HPCL	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	HPCLE	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	LIN	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	MEXCLR	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL		O		BEI
		SNGW*33	PCB016	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.13	UGL		O		BEI
		SNGW*33	PCB221	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.13	UGL				BEI
		SNGW*33	PCB232	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.13	UGL				BEI
		SNGW*33	PCB242	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.13	UGL				BEI
		SNGW*33	PCB248	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.13	UGL				BEI
		SNGW*33	PCB254	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.13	UGL				BEI
		SNGW*33	PCB260	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.13	UGL		O		BEI
		SNGW*33	PPDDD	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	PPDDE	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	PPDDT	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	TXPHEN	R	0.00	CGW	RNSW	RINSE	PST1/W	09-JAN-96	LT	0.60	UGL				BEI
ES	TFPA	SNGW*33	SE	R	0.00	CGW	RNSW	RINSE	GSE1/W	02-JAN-96	LT	2.50	UGL				BEI
ES	UAQA	SNGW*33	CYN	R	0.00	CGW	RNSW	RINSE	CYN1/W	12-DEC-95	LT	2.50	UGL				BEI
ES	UGSA	SNGW*33	HG	R	0.00	CGW	RNSW	RINSE	HGC1/W	22-DEC-95	LT	0.20	UGL				BEI
ES	VFTB	SNGW*33	124TCB	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	12DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	13DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	14DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	245TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	246TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	24DCLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	24DMPN	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	24DNP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	30.00	UGL				BEI
		SNGW*33	24DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	26DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	2CLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	2CNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	2MNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	2MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	2NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	2NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	33DCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	3NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	46DN2C	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	20.00	UGL				BEI
		SNGW*33	4BRPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	4CANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	4CL3C	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFTB	SNGW*33	4CLPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	4MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	4NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	4NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	20.00	UGL				BEI
		SNGW*33	ANAPNE	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	ANAPYL	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	ANTRC	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	B2CEXM	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	B2CIPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	B2CLEE	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	B2EHP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	BAANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	BAPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	BBFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	BBZP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	BENZOA	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	20.00	UGL				BEI
		SNGW*33	BGHIPY	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	BKFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	BZALC	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CARBAZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CHRY	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CL6BZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	CL6CP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	CL6ET	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	DBAHA	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	DBZFUR	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	DEP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	DMP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	DNBP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	DNOP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	FANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	FLRENE	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	HCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	ICDPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	ISOPHR	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	NAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	NB	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	NNDNPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	NNDPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	PCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*33	PHANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	PHENOL	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95		2.70	UGL				BEI
		SNGW*33	PYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*33	UNK516	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95		8.00	UGL	S			BEI
		SNGW*33	UNK519	R	0.00	CGW	RNSW	RINSE	SMV1/W	28-DEC-95		9.00	UGL	S			BEI
ES	WAPA	SNGW*33	AS	R	0.00	CGW	RNSW	RINSE	GAS1/W	03-JAN-96	LT	2.50	UGL				BEI
[redacted]																	
				R	0.00	CGW	RNSW	RINSE	GPB1/W	03-JAN-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	YAPA																
ES	ZJSA	SNGW*33	1MNAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*33	2MNAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*33	ANAPNE	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*33	ANAPYL	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*33	ANTRC	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI
		SNGW*33	BAANTR	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.02	UGL				BEI
		SNGW*33	BAPYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	BBFANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI
		SNGW*33	BGHIPY	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI
		SNGW*33	BKFANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.01	UGL				BEI
		SNGW*33	CHRY	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI
		SNGW*33	DBAHA	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.05	UGL				BEI
		SNGW*33	FANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.02	UGL				BEI
		SNGW*33	FLRENE	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.50	UGL				BEI
		SNGW*33	ICDPYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.05	UGL				BEI
		SNGW*33	NAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*33	PHANTR	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.50	UGL				BEI
		SNGW*33	PYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI

** End of Report - 200 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGTA	SNGW*34	TL	R	0.00	CGW	RNSW	RINSE	GTL1/W	15-JAN-96	LT	2.50	UGL				BEI
ES	MHZA	SNGW*34	AG	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	5.00	UGL				BEI
		SNGW*34	AL	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	40.00	UGL				BEI
		SNGW*34	BA	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	25.00	UGL				BEI
		SNGW*34	BE	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	5.00	UGL				BEI
		SNGW*34	CA	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96		1230.00	UGL				BEI
		SNGW*34	CD	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	5.00	UGL				BEI
		SNGW*34	CO	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	20.00	UGL				BEI
		SNGW*34	CR	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	10.00	UGL				BEI
		SNGW*34	CU	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	5.00	UGL				BEI
		SNGW*34	FE	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	45.00	UGL				BEI
		SNGW*34	K	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	550.00	UGL				BEI
		SNGW*34	MG	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96		84.20	UGL				BEI
		SNGW*34	MN	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	5.00	UGL				BEI
		SNGW*34	NA	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96		134.00	UGL				BEI
		SNGW*34	NI	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	15.00	UGL				BEI
		SNGW*34	SB	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	50.00	UGL				BEI
		SNGW*34	V	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	10.00	UGL				BEI
		SNGW*34	ZN	R	0.00	CGW	RNSW	RINSE	ICP1/W	11-JAN-96	LT	20.00	UGL				BEI
ES	NEMB	SNGW*34	111TCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	112TCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	11DCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	11DCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	12DCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	12DCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	12DCLP	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	2CLEVE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*34	ACET	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*34	BRDCLM	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	C13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	C2AVE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*34	C2H3CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	C2H5CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*34	C6H6	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	CCL4	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	CH2CL2	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*34	CH3BR	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	CH3CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	CHBR3	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	CHCL3	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	CLC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	CS2	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*34	DBRCLM	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	ETC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
[redacted]																	
		SNGW*34	MEK	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEMB	SNGW*34	MNBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*34	STYR	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	T13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	TCLEA	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	TCLEE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	TRCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*34	TXYLEN	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*34	UNK022	R	0.00	CGW	RNSW	RINSE	VMS2/W	19-DEC-95		20.00	UGL	S			BEI
ES	PEFO	SNGW*34	135TNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	13DNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	246TNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	24DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.06	UGL				BEI
		SNGW*34	26DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.07	UGL				BEI
		SNGW*34	2A46DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	2NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.20	UGL				BEI
		SNGW*34	3NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.20	UGL				BEI
		SNGW*34	4A26DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	4NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.20	UGL				BEI
		SNGW*34	HMX	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.20	UGL				BEI
		SNGW*34	NB	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	RDX	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	0.20	UGL				BEI
		SNGW*34	TETRYL	R	0.00	CGW	RNSW	RINSE	EXL1/W	09-JAN-96	LT	1.00	UGL				BEI
ES	RICB	SNGW*34	245T	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	245TP	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	24D	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	24DB	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	DALA	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	DCAMBA	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	DICP	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	DINO	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	MCPA	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	3.00	UGL				BEI
		SNGW*34	MCPP	R	0.00	CGW	RNSW	RINSE	HBG1/W	10-JAN-96	LT	3.00	UGL				BEI
ES	SCRB	SNGW*34	ABHC	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	ACLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	AENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	ALDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL		N		BEI
		SNGW*34	BBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	BENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	CLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.03	UGL				BEI
		SNGW*34	DBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	DLDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	ENDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	ENDRNA	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.02	UGL				BEI
		SNGW*34	ENDRNK	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	ESFSO4	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCRB	SNGW*34	GCLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	HPCL	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	HPCLE	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	LIN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	MEXCLR	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	PCB016	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.13	UGL				BEI
		SNGW*34	PCB221	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.13	UGL				BEI
		SNGW*34	PCB232	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.13	UGL				BEI
		SNGW*34	PCB242	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.13	UGL				BEI
		SNGW*34	PCB248	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.13	UGL				BEI
		SNGW*34	PCB254	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.13	UGL				BEI
		SNGW*34	PCB260	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.13	UGL		O		BEI
		SNGW*34	PPDDD	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	PPDDE	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	PPDDT	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	TXPHEN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-JAN-96	LT	0.60	UGL				BEI
ES	TFTA	SNGW*34	SE	R	0.00	CGW	RNSW	RINSE	GSE1/W	12-JAN-96	LT	2.50	UGL				BEI
ES	UARA	SNGW*34	CYN	R	0.00	CGW	RNSW	RINSE	CYN1/W	20-DEC-95	LT	2.50	UGL				BEI
ES	UGYA	SNGW*34	HG	R	0.00	CGW	RNSW	RINSE	HGC1/W	10-JAN-96	LT	0.20	UGL				BEI
ES	VFAC	SNGW*34	124TCB	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	12DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	13DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	14DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	245TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	246TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	24DCLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	24DMPN	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	24DNP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	30.00	UGL				BEI
		SNGW*34	24DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	26DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	2CLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	2CNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	2MNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	2MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	2NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	10.00	UGL				BEI
		SNGW*34	2NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	33DCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	10.00	UGL				BEI
		SNGW*34	3NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	10.00	UGL				BEI
		SNGW*34	46DN2C	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	20.00	UGL				BEI
		SNGW*34	4BRPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
[redacted]																	
		SNGW*34	4CL3C	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFAC	SNGW*34	4MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	4NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	10.00	UGL				BEI
		SNGW*34	4NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	20.00	UGL				BEI
		SNGW*34	ANAPNE	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	ANAPYL	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	ANTRC	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	B2CEXM	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	B2CIPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	B2CLEE	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	B2EHP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	BAANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	BAPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	BBFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	BBZP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	BENZOA	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	20.00	UGL				BEI
		SNGW*34	BGHIPY	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	BKFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	BZALC	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	CARBAZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	CHRY	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	CL6BZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	CL6CP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	10.00	UGL				BEI
		SNGW*34	CL6ET	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	DBAHA	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	DBZFUR	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	DEP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	DMP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	DNBP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	DNOP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	FANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	FLRENE	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	HCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	ICDPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	ISOPHR	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	NAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	NB	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	NNDNPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	NNDPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	PCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	10.00	UGL				BEI
		SNGW*34	PHANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	PHENOL	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	PYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	UNK519	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96		8.00	UGL	S			BEI
		SNGW*34	UNK620	R	0.00	CGW	RNSW	RINSE	SMV1/W	13-JAN-96		6.00	UGL	S			BEI
ES	WATA	SNGW*34	AS	R	0.00	CGW	RNSW	RINSE	GAS1/W	15-JAN-96	LT	2.50	UGL				BEI
ES	WATA	SNGW*34	PB	R	0.00	CGW	RNSW	RINSE	GPB1/W	15-JAN-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJYA	SNGW*34	1MNAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	2MNAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	ANAPNE	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	2.00	UGL		J		BEI
		SNGW*34	ANAPYL	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	ANTRC	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	BAANTR	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.02	UGL				BEI
		SNGW*34	BAPYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	BBFANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	BGHIPY	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	BKFANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*34	CHRY	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.10	UGL				BEI
		SNGW*34	DBAHA	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.05	UGL				BEI
		SNGW*34	FANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.02	UGL				BEI
		SNGW*34	FLRENE	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.50	UGL				BEI
		SNGW*34	ICDPYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.05	UGL				BEI
		SNGW*34	NAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	2.00	UGL				BEI
		SNGW*34	PHANTR	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.50	UGL				BEI
		SNGW*34	PYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	10-JAN-96	LT	0.10	UGL				BEI

** End of Report - 199 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGZA	SNGW2*85	TL	R	0.00	CGW	RNSW	RINSE	GTL1/W	16-MAY-96	LT	2.50	UGL				BEI
ES	MHMB	SNGW2*85	AG	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*85	AL	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96		42.80	UGL				BEI
		SNGW2*85	B	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	50.00	UGL				BEI
		SNGW2*85	BA	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	25.00	UGL				BEI
		SNGW2*85	BE	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*85	CA	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96		102.00	UGL				BEI
		SNGW2*85	CD	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*85	CO	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	20.00	UGL				BEI
		SNGW2*85	CR	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	10.00	UGL				BEI
		SNGW2*85	CU	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*85	FE	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96		45.70	UGL				BEI
		SNGW2*85	K	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	550.00	UGL				BEI
		SNGW2*85	MG	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	50.00	UGL				BEI
		SNGW2*85	MN	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*85	NA	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96		183.00	UGL				BEI
		SNGW2*85	NI	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	15.00	UGL				BEI
		SNGW2*85	SB	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	50.00	UGL				BEI
		SNGW2*85	V	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	10.00	UGL				BEI
		SNGW2*85	ZN	R	0.00	CGW	RNSW	RINSE	ICP1/W	20-MAY-96	LT	20.00	UGL				BEI
ES	NEEC	SNGW2*85	111TCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	112TCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	11DCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	11DCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	12DCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	12DCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	12DCLP	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	2CLEVE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	ACET	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	BRDCLM	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	C13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	C2AVE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	C2H3CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	C2H5CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	C6H6	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	CCL4	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	CH2CL2	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	CH3BR	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	CH3CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	CHBR3	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	CHCL3	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	CLC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	CS2	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	DBRCLM	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	ETC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	MEC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
					0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEEC	SNGW2*85	MIBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	MNBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	STYR	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	T13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	TCLEA	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	TCLEE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	TRCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*85	TXYLEN	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*85	UNK025	R	0.00	CGW	RNSW	RINSE	VMS2/W	29-APR-96		30.00	UGL	S			BEI
ES	PETP	SNGW2*85	135TNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	13DNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	246TNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	24DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.06	UGL				BEI
		SNGW2*85	26DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.07	UGL				BEI
		SNGW2*85	2A46DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	2NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*85	3NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*85	4A26DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	4NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*85	HMX	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*85	NB	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	RDX	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*85	TETRYL	R	0.00	CGW	RNSW	RINSE	EXL1/W	16-MAY-96	LT	1.00	UGL				BEI
ES	QANA	SNGW2*85	NIT	R	0.00	CGW	RNSW	RINSE	ANA2/W	14-MAY-96	LT	20.00	UGL				BEI
ES	RIOB	SNGW2*85	245T	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	245TP	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	24D	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	24DB	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	DALA	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	DCAMBA	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	DICP	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	DINO	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*85	MCPA	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	3.00	UGL				BEI
		SNGW2*85	MCPP	R	0.00	CGW	RNSW	RINSE	HBG1/W	02-MAY-96	LT	3.00	UGL				BEI
ES	SAIA	SNGW2*85	CL	R	0.00	CGW	RNSW	RINSE	ANI1/W	13-MAY-96	LT	500.00	UGL				BEI
		SNGW2*85	F	R	0.00	CGW	RNSW	RINSE	ANI1/W	13-MAY-96	LT	500.00	UGL				BEI
		SNGW2*85	SO4	R	0.00	CGW	RNSW	RINSE	ANI1/W	13-MAY-96	LT	5000.00	UGL				BEI
ES	SCNC	SNGW2*85	ABHC	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	ACLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	AENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	ALDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCNC	SNGW2*85	BBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	BENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	CLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.03	UGL				BEI
		SNGW2*85	DBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	DLDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	ENDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	ENDRNA	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.02	UGL				BEI
		SNGW2*85	ENDRNK	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	ESFSO4	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96		0.04	UGL	C			BEI
		SNGW2*85	GCLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	HPCL	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	HPCLE	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	LIN	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	MEXCLR	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL		P		BEI
		SNGW2*85	PCB016	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*85	PCB221	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*85	PCB232	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*85	PCB242	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*85	PCB248	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*85	PCB254	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*85	PCB260	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*85	PPDDD	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	PPDDE	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*85	PPDDT	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.01	UGL		PORJ		BEI
		SNGW2*85	TXPHEN	R	0.00	CGW	RNSW	RINSE	PST1/W	16-MAY-96	LT	0.60	UGL				BEI
ES	TFZA	SNGW2*85	SE	R	0.00	CGW	RNSW	RINSE	GSE1/W	16-MAY-96	LT	2.50	UGL				BEI
ES	UAZA	SNGW2*85	CYN	R	0.00	CGW	RNSW	RINSE	CYN1/W	04-MAY-96	LT	2.50	UGL				BEI
ES	UGLB	SNGW2*85	HG	R	0.00	CGW	RNSW	RINSE	HGC1/W	16-MAY-96	LT	0.20	UGL				BEI
ES	VFVC	SNGW2*85	124TCB	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	12DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	13DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	14DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	245TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	246TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	24DCLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	24DMPN	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	24DNP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	30.00	UGL				BEI
		SNGW2*85	24DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	26DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	2CLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	2CNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	2MNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	2MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFVC	SNGW2*85	2NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*85	2NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	33DCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*85	3NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*85	46DN2C	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	20.00	UGL				BEI
		SNGW2*85	4BRPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	4CANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	4CL3C	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	4CLPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	4MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	4NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*85	4NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	20.00	UGL				BEI
		SNGW2*85	ANAPNE	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	ANAPYL	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	ANTRC	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	B2CEXM	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	B2CIPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	B2CLEE	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	B2EHP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	BAANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	BAPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	BBFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	BBZP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	BENZOA	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	20.00	UGL				BEI
		SNGW2*85	BGHIPY	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	BKFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	BZALC	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	CARBAZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	CHRY	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	CL6BZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	CL6CP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*85	CL6ET	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	DBAHA	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	DBZFUR	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	DEP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	DMP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	DNBP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	DNOP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	FANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	FLRENE	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	HCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	ICDPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	ISOPHR	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	NAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	NB	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	NNDNPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	NNDPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*85	PCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*85	PHANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
[redacted]		[redacted]	ENOL	[redacted]	[redacted]		RNS	SE	[redacted]	1-MA	[redacted]	91.	GL	[redacted]	[redacted]	[redacted]	[redacted]
		SNGW2*85	PYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
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ES	NEGC	SNGW2*84	MIBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		SNGW2*84	MNBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		SNGW2*84	STYR	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*84	T13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*84	TCLEA	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*84	TCLEE	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*84	TRCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*84	TXYLEN	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		SNGW2*84	UNK025	R	0.00	CGW	RNSW	RINSE	VMS2/W	30-APR-96		20.00	UGL	S			BEI
ES	PECQ	SNGW2*84	135TNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	13DNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	246TNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	24DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.06	UGL				BEI
		SNGW2*84	26DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.07	UGL				BEI
		SNGW2*84	2A46DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	2NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.20	UGL				BEI
		SNGW2*84	3NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.20	UGL				BEI
		SNGW2*84	4A26DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	4NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.20	UGL				BEI
		SNGW2*84	HMX	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.20	UGL				BEI
		SNGW2*84	NB	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	RDX	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	0.20	UGL				BEI
		SNGW2*84	TETRYL	R	0.00	CGW	RNSW	RINSE	EXL1/W	23-MAY-96	LT	1.00	UGL				BEI
ES	QANA	SNGW2*84	NIT	R	0.00	CGW	RNSW	RINSE	ANA2/W	14-MAY-96	LT	20.00	UGL				BEI
ES	RIPB	SNGW2*84	245T	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	245TP	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	24D	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	24DB	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	DALA	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	DCAMBA	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	DICP	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	DINO	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	MCPA	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	3.00	UGL				BEI
		SNGW2*84	MCPP	R	0.00	CGW	RNSW	RINSE	HBG1/W	04-MAY-96	LT	3.00	UGL				BEI
ES	SAIA	SNGW2*84	CL	R	0.00	CGW	RNSW	RINSE	ANI1/W	13-MAY-96	LT	500.00	UGL				BEI
		SNGW2*84	F	R	0.00	CGW	RNSW	RINSE	ANI1/W	13-MAY-96	LT	500.00	UGL				BEI
		SNGW2*84	SO4	R	0.00	CGW	RNSW	RINSE	ANI1/W	13-MAY-96	LT	5000.00	UGL				BEI
ES	SCOC	SNGW2*84	ABHC	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	ACLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	AENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	ALDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCOC	SNGW2*84	BBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	BENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	CLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.03	UGL				BEI
		SNGW2*84	DBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	DLDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	ENDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	ENDRNA	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.02	UGL				BEI
		SNGW2*84	ENDRNK	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	ESFSO4	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96		0.04	UGL	C			BEI
		SNGW2*84	GCLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	HPCL	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	HPCLE	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	LIN	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	MEXCLR	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	PCB016	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.13	UGL				BEI
		SNGW2*84	PCB221	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.13	UGL				BEI
		SNGW2*84	PCB232	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.13	UGL				BEI
		SNGW2*84	PCB242	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.13	UGL				BEI
		SNGW2*84	PCB248	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.13	UGL				BEI
		SNGW2*84	PCB254	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.13	UGL				BEI
		SNGW2*84	PCB260	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.13	UGL				BEI
		SNGW2*84	PPDDD	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	PPDDE	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	PPDDT	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	TXPHEN	R	0.00	CGW	RNSW	RINSE	PST1/W	23-MAY-96	LT	0.60	UGL				BEI
ES	TFYA	SNGW2*84	SE	R	0.00	CGW	RNSW	RINSE	GSE1/W	13-MAY-96	LT	2.50	UGL				BEI
ES	UAZA	SNGW2*84	CYN	R	0.00	CGW	RNSW	RINSE	CYN1/W	04-MAY-96	LT	2.50	UGL				BEI
ES	UGKB	SNGW2*84	HG	R	0.00	CGW	RNSW	RINSE	HGC1/W	12-MAY-96	LT	0.20	UGL				BEI
ES	VFWC	SNGW2*84	124TCB	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	12DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	13DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	14DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	245TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	246TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	24DCLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	24DMPN	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	24DNP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	30.00	UGL				BEI
		SNGW2*84	24DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	26DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	2CLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
[redacted]		SNGW2*84	2CNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
[redacted]		SNGW2*84	[redacted]NAP	[redacted]	0.00	[redacted]	RNSW	[redacted]SE	SMV1/[redacted]	7-MAY-[redacted]	LT	2.0[redacted]	GL	[redacted]	[redacted]	[redacted]	B[redacted]
		SNGW2*84	2MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFWC	SNGW2*84	2NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	10.00	UGL				BEI
		SNGW2*84	2NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	33DCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	10.00	UGL				BEI
		SNGW2*84	3NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	10.00	UGL				BEI
		SNGW2*84	46DN2C	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	20.00	UGL				BEI
		SNGW2*84	4BRPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	4CANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	4CL3C	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	4CLPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	4MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	4NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	10.00	UGL				BEI
		SNGW2*84	4NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	20.00	UGL				BEI
		SNGW2*84	ANAPNE	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	ANAPYL	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	ANTRC	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	B2CEXM	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	B2CIPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	B2CLEE	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	B2EHP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96		12.00	UGL				BEI
		SNGW2*84	BAANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	BAPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	BBFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	BBZP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	BENZOA	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	20.00	UGL				BEI
		SNGW2*84	BGHIPY	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	BKFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	BZALC	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	CARBAZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	CHRY	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	CL6BZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	CL6CP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	10.00	UGL				BEI
		SNGW2*84	CL6ET	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	DBAHA	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	DBZFUR	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	DEP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	DMP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	DNBP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	DNOP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	FANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	FLRENE	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	HCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	ICDPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	ISOPHR	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	NAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	NB	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	NNDNPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	NNDPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	PCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	10.00	UGL				BEI
		SNGW2*84	PHANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	PHENOL	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96		17.00	UGL				BEI
		[illegible]	PYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFWC	SNGW2*84	UNK516	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96		6.00	UGL	S			BEI
		SNGW2*84	UNK633	R	0.00	CGW	RNSW	RINSE	SMV1/W	07-MAY-96		9.00	UGL	S			BEI
ES	WAYA	SNGW2*84	AS	R	0.00	CGW	RNSW	RINSE	GAS1/W	15-MAY-96	LT	2.50	UGL				BEI
ES	YAYA	SNGW2*84	PB	R	0.00	CGW	RNSW	RINSE	GPB1/W	14-MAY-96	LT	2.00	UGL				BEI
ES	ZJTB	SNGW2*84	1MNAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	2MNAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	ANAPNE	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	ANAPYL	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	ANTRC	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	BAANTR	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.02	UGL				BEI
		SNGW2*84	BAPYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	BBFANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	BGHIPY	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	BKFANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.01	UGL				BEI
		SNGW2*84	CHRY	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.10	UGL				BEI
		SNGW2*84	DBAHA	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.05	UGL				BEI
		SNGW2*84	FANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.02	UGL				BEI
		SNGW2*84	FLRENE	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.50	UGL				BEI
		SNGW2*84	ICDPYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.05	UGL				BEI
		SNGW2*84	NAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*84	PHANTR	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.50	UGL				BEI
		SNGW2*84	PYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	01-MAY-96	LT	0.10	UGL				BEI
ES	ZKAB	SNGW2*84	COD	R	0.00	CGW	RNSW	RINSE	4104/W	09-MAY-96	LT	5000.00	UGL				BEI
ES	ZKEB	SNGW2*84	HARD	R	0.00	CGW	RNSW	RINSE	1302/W	30-APR-96	LT	1000.00	UGL				BEI
ES	ZKGA	SNGW2*84	TDS	R	0.00	CGW	RNSW	RINSE	1601/W	29-APR-96	LT	10000.00	UGL				BEI
ES	ZKOA	SNGW2*84	ALK	R	0.00	CGW	RNSW	RINSE	3101/W	05-MAY-96	LT	5000.00	UGL				BEI
ES	ZKRB	SNGW2*84	TOC	R	0.00	CGW	RNSW	RINSE	4151/W	10-MAY-96	LT	1000.00	UGL				BEI

** End of Report - 209 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	LLAA	SNGW2*88	135TNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*88	13DNB	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*88	246TNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.10	UGL		J		BEI
		SNGW2*88	24DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.06	UGL				BEI
		SNGW2*88	26DNT	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.07	UGL				BEI
		SNGW2*88	2A46DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*88	2NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.20	UGL				BEI
		SNGW2*88	3NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.20	UGL				BEI
		SNGW2*88	4A26DT	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*88	4NT	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.20	UGL				BEI
		SNGW2*88	HMX	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.20	UGL				BEI
		SNGW2*88	NB	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*88	RDX	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	0.20	UGL		IR		BEI
		SNGW2*88	TETRYL	R	0.00	CGW	RNSW	RINSE	EXL1/W	05-JUN-96	LT	1.00	UGL				BEI
ES	MGBB	SNGW2*88	TL	R	0.00	CGW	RNSW	RINSE	GTL1/W	30-MAY-96	LT	2.50	UGL				BEI
ES	MHQB	SNGW2*88	AG	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*88	AL	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	40.00	UGL				BEI
		SNGW2*88	B	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96		112.00	UGL				BEI
		SNGW2*88	BA	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	25.00	UGL				BEI
		SNGW2*88	BE	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*88	CA	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96		145.00	UGL				BEI
		SNGW2*88	CD	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*88	CO	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	20.00	UGL				BEI
		SNGW2*88	CR	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	CU	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*88	FE	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	45.00	UGL				BEI
		SNGW2*88	K	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	550.00	UGL				BEI
		SNGW2*88	MG	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	50.00	UGL				BEI
		SNGW2*88	MN	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*88	NA	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96		390.00	UGL		I		BEI
		SNGW2*88	NI	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	15.00	UGL				BEI
		SNGW2*88	SB	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	50.00	UGL				BEI
		SNGW2*88	V	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	ZN	R	0.00	CGW	RNSW	RINSE	ICP1/W	31-MAY-96	LT	20.00	UGL				BEI
ES	NEJC	SNGW2*88	111TCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	112TCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	11DCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	11DCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	12DCE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	12DCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	12DCLP	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	2CLEVE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	ACET	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	BRDCLM	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	C13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEJC	SNGW2*88	C2AVE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	C2H3CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	C2H5CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	C6H6	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CCL4	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CH2CL2	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	CH3BR	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CH3CL	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CHBR3	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CHCL3	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CLC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CS2	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	DBRCLM	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	ETC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	MEC6H5	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	MEK	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	MIBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	MNBK	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	STYR	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	T13DCP	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	TCLEA	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	TCLEE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	TRCLE	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	TXYLEN	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	UNK025	R	0.00	CGW	RNSW	RINSE	VMS2/W	08-MAY-96		40.00	UGL	S			BEI
ES	QAPA	SNGW2*88	NIT	R	0.00	CGW	RNSW	RINSE	ANA2/W	23-MAY-96	LT	20.00	UGL				BEI
ES	RIRB	SNGW2*88	245T	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	245TP	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	24D	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	24DB	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	0.10	UGL		M		BEI
		SNGW2*88	DALA	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	DCAMBA	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	DICP	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	DINO	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	MCPA	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	3.00	UGL				BEI
		SNGW2*88	MCPP	R	0.00	CGW	RNSW	RINSE	HBG1/W	21-MAY-96	LT	3.00	UGL				BEI
ES	SAJA	SNGW2*88	CL	R	0.00	CGW	RNSW	RINSE	ANI1/W	27-MAY-96	LT	500.00	UGL				BEI
		SNGW2*88	F	R	0.00	CGW	RNSW	RINSE	ANI1/W	27-MAY-96	LT	500.00	UGL				BEI
		SNGW2*88	SO4	R	0.00	CGW	RNSW	RINSE	ANI1/W	27-MAY-96	LT	5000.00	UGL				BEI
ES	SCSC	SNGW2*88	ABHC	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	ACLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		SNGW2*88	ALDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCSC	SNGW2*88	BBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	BENSLF	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	CLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.03	UGL				BEI
		SNGW2*88	DBHC	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	DLDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	ENDRN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	ENDRNA	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.02	UGL				BEI
		SNGW2*88	ENDRNK	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	ESFSO4	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	GCLDAN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	HPCL	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	HPCLE	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	LIN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	MEXCLR	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	PCB016	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.13	UGL				BEI
		SNGW2*88	PCB221	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.13	UGL				BEI
		SNGW2*88	PCB232	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.13	UGL				BEI
		SNGW2*88	PCB242	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.13	UGL				BEI
		SNGW2*88	PCB248	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.13	UGL				BEI
		SNGW2*88	PCB254	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.13	UGL				BEI
		SNGW2*88	PCB260	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.13	UGL				BEI
		SNGW2*88	PPDDD	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	PPDDE	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	PPDDT	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	TXPHEN	R	0.00	CGW	RNSW	RINSE	PST1/W	18-MAY-96	LT	0.60	UGL				BEI
ES	TFBB	SNGW2*88	SE	R	0.00	CGW	RNSW	RINSE	GSE1/W	04-JUN-96	LT	2.50	UGL				BEI
ES	UAAB	SNGW2*88	CYN	R	0.00	CGW	RNSW	RINSE	CYN1/W	10-MAY-96	LT	2.50	UGL				BEI
ES	UGPB	SNGW2*88	HG	R	0.00	CGW	RNSW	RINSE	HGC1/W	25-MAY-96	LT	0.20	UGL				BEI
ES	VFAD	SNGW2*88	124TCB	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	12DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	13DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	14DCLB	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	245TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	246TCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	24DCLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	24DMPN	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	24DNP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	30.00	UGL				BEI
		SNGW2*88	24DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	26DNT	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	2CLP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	2CNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	2MNAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFAD	SNGW2*88	2NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	2NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	33DCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	3NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	46DN2C	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	20.00	UGL				BEI
		SNGW2*88	4BRPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	4CANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	4CL3C	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	4CLPPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	4MP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	4NANIL	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	4NP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	20.00	UGL				BEI
		SNGW2*88	ANAPNE	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	ANAPYL	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	ANTRC	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	B2CEXM	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	B2CIPE	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	B2CLEE	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	B2EHP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96		24.00	UGL				BEI
		SNGW2*88	BAANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	BAPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	BBFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	BBZP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	BENZOA	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	20.00	UGL				BEI
		SNGW2*88	BGHIPY	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	BKFANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	BZALC	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CARBAZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CHRY	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CL6BZ	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	CL6CP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	CL6ET	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	DBAHA	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	DBZFUR	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	DEP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	DMP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	DNBP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	DNOP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	FANT	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	FLRENE	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	HCBD	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	ICDPYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	ISOPHR	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	NAP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	NB	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	NNDNPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	NNDPA	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	PCP	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	10.00	UGL				BEI
		SNGW2*88	PHANTR	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		SNGW2*88	PYR	R	0.00	CGW	RNSW	RINSE	SMV1/W	15-MAY-96	LT	2.00	UGL				BEI

19-SEP-97 08:06:11

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFAD																
ES	WABB	SNGW2*88	AS	R	0.00	CGW	RNSW	RINSE	GAS1/W	02-JUN-96	LT	2.50	UGL		J		BEI
ES	YABB	SNGW2*88	PB	R	0.00	CGW	RNSW	RINSE	GPB1/W	31-MAY-96	LT	2.00	UGL				BEI
ES	ZJWB	SNGW2*88	1MNAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	2MNAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	ANAPNE	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	ANAPYL	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	ANTRC	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.10	UGL		RJ		BEI
		SNGW2*88	BAANTR	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.02	UGL				BEI
		SNGW2*88	BAPYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	BBFANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	BGHIPY	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	BKFANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*88	CHRY	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*88	DBAHA	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.05	UGL				BEI
		SNGW2*88	FANT	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.02	UGL				BEI
		SNGW2*88	FLRENE	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.50	UGL				BEI
		SNGW2*88	ICDPYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.05	UGL				BEI
		SNGW2*88	NAP	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*88	PHANTR	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.50	UGL				BEI
		SNGW2*88	PYR	R	0.00	CGW	RNSW	RINSE	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
ES	ZKAB	SNGW2*88	COD	R	0.00	CGW	RNSW	RINSE	4104/W	09-MAY-96	LT	5000.00	UGL				BEI
ES	ZKCB	SNGW2*88	ALK	R	0.00	CGW	RNSW	RINSE	3101/W	12-MAY-96	LT	5000.00	UGL				BEI
ES	ZKGB	SNGW2*88	HARD	R	0.00	CGW	RNSW	RINSE	1302/W	14-MAY-96	LT	1000.00	UGL				BEI
ES	ZKSC	SNGW2*88	TOC	R	0.00	CGW	RNSW	RINSE	4151/W	27-MAY-96	LT	1000.00	UGL				BEI
ES	ZKWA	SNGW2*88	TDS	R	0.00	CGW	RNSW	RINSE	1601/W	06-MAY-96		49000.00	UGL				BEI

** End of Report - 207 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGQA	SNGW*49	TL	R	0.00	CGW	RNSW	RINSEKECKP	GTL1/W	04-JAN-96	LT	2.50	UGL				BEI
ES	MHUA	SNGW*49	AG	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*49	AL	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	40.00	UGL				BEI
		SNGW*49	B	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	50.00	UGL				BEI
		SNGW*49	BA	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	25.00	UGL				BEI
		SNGW*49	BE	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*49	CA	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95		322.00	UGL				BEI
		SNGW*49	CD	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*49	CO	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	20.00	UGL				BEI
		SNGW*49	CR	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	CU	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*49	FE	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95		51.20	UGL				BEI
		SNGW*49	K	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	550.00	UGL				BEI
		SNGW*49	MG	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	50.00	UGL				BEI
		SNGW*49	MN	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	5.00	UGL				BEI
		SNGW*49	NA	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95		173.00	UGL		I		BEI
		SNGW*49	NI	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	15.00	UGL				BEI
		SNGW*49	SB	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	50.00	UGL				BEI
		SNGW*49	V	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	ZN	R	0.00	CGW	RNSW	RINSEKECKP	ICP1/W	29-DEC-95	LT	20.00	UGL				BEI
ES	NEIB	SNGW*49	111TCE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	112TCE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	11DCE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	11DCLE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	12DCE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	12DCLE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	12DCLP	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	2CLEVE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	ACET	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95		13.00	UGL				BEI
		SNGW*49	BRDCLM	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	C13DCP	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	C2AVE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	C2H3CL	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	C2H5CL	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	C6H6	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CCL4	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CH2CL2	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	CH3BR	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CH3CL	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CHBR3	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CHCL3	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CLC6H5	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CS2	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	DBRCLM	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	ETC6H5	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	MEC6H5	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	MEK	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
																	BEI
ES	NEIB	SNGW*49	MIBK	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	MNBK	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	STYR	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	T13DCP	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	TCLEA	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	TCLEE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	TRCLE	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	TXYLEN	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	UNK026	R	0.00	CGW	RNSW	RINSEKECKP	VMS2/W	07-DEC-95		30.00	UGL	S			BEI
																	BEI
ES	PEYN	SNGW*49	135TNB	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	13DNB	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	246TNT	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	24DNT	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.06	UGL				BEI
		SNGW*49	26DNT	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.07	UGL				BEI
		SNGW*49	2A46DT	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	2NT	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*49	3NT	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*49	4A26DT	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	4NT	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*49	HMX	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*49	NB	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95		0.14	UGL	C	MI		BEI
		SNGW*49	RDX	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	0.20	UGL				BEI
		SNGW*49	TETRYL	R	0.00	CGW	RNSW	RINSEKECKP	EXL1/W	17-DEC-95	LT	1.00	UGL				BEI
																	BEI
ES	RIZA	SNGW*49	245T	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	245TP	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	24D	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	24DB	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	DALA	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	DCAMBA	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	DICP	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	DINO	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	0.10	UGL				BEI
		SNGW*49	MCPA	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	3.00	UGL				BEI
		SNGW*49	MCPP	R	0.00	CGW	RNSW	RINSEKECKP	HBG1/W	23-DEC-95	LT	3.00	UGL				BEI
																	BEI
ES	SCOB	SNGW*49	ABHC	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	ACLDAN	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	AENSLF	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	ALDRN	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL		JN		BEI
		SNGW*49	BBHC	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	BENSLF	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	CLDAN	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.03	UGL				BEI
		SNGW*49	DBHC	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	DLDRN	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	ENDRN	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	ENDRNA	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.02	UGL				BEI
																	BEI
												0.01	UGL				

Chemical Quality Control Report
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Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCOB	SNGW*49	ESFSO4	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	GCLDAN	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	HPCL	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	HPCLE	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	LIN	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	MEXCLR	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL		O		BEI
		SNGW*49	PCB016	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.13	UGL		O		BEI
		SNGW*49	PCB221	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.13	UGL				BEI
		SNGW*49	PCB232	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.13	UGL				BEI
		SNGW*49	PCB242	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.13	UGL				BEI
		SNGW*49	PCB248	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.13	UGL				BEI
		SNGW*49	PCB254	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.13	UGL				BEI
		SNGW*49	PCB260	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.13	UGL		O		BEI
		SNGW*49	PPDDD	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	PPDDE	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	PPDDT	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	TXPHEN	R	0.00	CGW	RNSW	RINSEKECKP	PST1/W	10-JAN-96	LT	0.60	UGL				BEI
ES	TFQA	SNGW*49	SE	R	0.00	CGW	RNSW	RINSEKECKP	GSE1/W	04-JAN-96	LT	2.50	UGL				BEI
ES	UAQA	SNGW*49	CYN	R	0.00	CGW	RNSW	RINSEKECKP	CYN1/W	12-DEC-95	LT	2.50	UGL				BEI
ES	UGTA	SNGW*49	HG	R	0.00	CGW	RNSW	RINSEKECKP	HGC1/W	27-DEC-95	LT	0.20	UGL				BEI
ES	VFTB	SNGW*49	124TCB	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	12DCLB	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	13DCLB	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	14DCLB	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	245TCP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	246TCP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	24DCLP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	24DMPN	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	24DNP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	30.00	UGL				BEI
		SNGW*49	24DNT	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	26DNT	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	2CLP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	2CNAP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	2MNAP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	2MP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	2NANIL	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	2NP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	33DCBD	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	3NANIL	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	46DN2C	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	20.00	UGL				BEI
		SNGW*49	4BRPPE	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
[redacted]																	
		SNGW*49	4CLANIL	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
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ES	VFTB	SNGW*49	4CLPPE	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	4MP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	4NANIL	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	4NP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	20.00	UGL				BEI
		SNGW*49	ANAPNE	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	ANAPYL	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	ANTRC	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	B2CEXM	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	B2CIPE	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	B2CLEE	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	B2EHP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	BAANTR	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	BAPYR	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	BBFANT	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	BBZP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	BENZOA	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	20.00	UGL				BEI
		SNGW*49	BGHIPY	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	BKFANT	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	BZALC	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CARBAZ	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CHRY	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CL6BZ	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	CL6CP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	CL6ET	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	DBAHA	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	DBZFUR	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	DEP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	DMP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	DNBP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	DNOP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	FANT	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	FLRENE	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	HCBD	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	ICDPYR	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	ISOPHR	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	NAP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	NB	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	NNDNPA	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	NNDPA	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	PCP	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	10.00	UGL				BEI
		SNGW*49	PHANTR	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	PHENOL	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
		SNGW*49	PYR	R	0.00	CGW	RNSW	RINSEKECKP	SMV1/W	28-DEC-95	LT	2.00	UGL				BEI
ES	WAQA	SNGW*49	AS	R	0.00	CGW	RNSW	RINSEKECKP	GAS1/W	03-JAN-96	LT	2.50	UGL				BEI
ES	YAQA	SNGW*49	PB	R	0.00	CGW	RNSW	RINSEKECKP	GPB1/W	05-JAN-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJSA	SNGW*49	1MNAP	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*49	2MNAP	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*49	ANAPNE	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*49	ANAPYL	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*49	ANTRC	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI
		SNGW*49	BAANTR	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.02	UGL				BEI
		SNGW*49	BAPYR	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	BBFANT	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI
		SNGW*49	BGHIPY	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI
		SNGW*49	BKFANT	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.01	UGL				BEI
		SNGW*49	CHRY	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI
		SNGW*49	DBAHA	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.05	UGL				BEI
		SNGW*49	FANT	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.02	UGL				BEI
		SNGW*49	FLRENE	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.50	UGL				BEI
		SNGW*49	ICDPYR	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.05	UGL				BEI
		SNGW*49	NAP	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	2.00	UGL				BEI
		SNGW*49	PHANTR	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.50	UGL				BEI
		SNGW*49	PYR	R	0.00	CGW	RNSW	RINSEKECKP	PAH1/W	07-JAN-96	LT	0.10	UGL				BEI

** End of Report - 198 Records Found **

19-SEP-97 08:09:54

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGZA	SNGW2*83	TL	R	0.00	CGW	RNSW	TRUCK#139	GTL1/W	16-MAY-96	LT	2.50	UGL				BEI
ES	MHMB	SNGW2*83	AG	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*83	AL	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	40.00	UGL				BEI
		SNGW2*83	B	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	50.00	UGL				BEI
		SNGW2*83	BA	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	25.00	UGL				BEI
		SNGW2*83	BE	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*83	CA	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96		552.00	UGL				BEI
		SNGW2*83	CD	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*83	CO	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	20.00	UGL				BEI
		SNGW2*83	CR	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	10.00	UGL				BEI
		SNGW2*83	CU	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*83	FE	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96		59.20	UGL				BEI
		SNGW2*83	K	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	550.00	UGL				BEI
		SNGW2*83	MG	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	50.00	UGL				BEI
		SNGW2*83	MN	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	5.00	UGL				BEI
		SNGW2*83	NA	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96		166.00	UGL				BEI
		SNGW2*83	NI	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	15.00	UGL				BEI
		SNGW2*83	SB	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	50.00	UGL				BEI
		SNGW2*83	V	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	10.00	UGL				BEI
		SNGW2*83	ZN	R	0.00	CGW	RNSW	TRUCK#139	ICP1/W	20-MAY-96	LT	20.00	UGL				BEI
ES	NEEC	SNGW2*83	111TCE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	112TCE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	11DCE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	11DCLE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	12DCE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	12DCLE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	12DCLP	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	2CLEVE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*83	ACET	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96		10.00	UGL	PJ			BEI
		SNGW2*83	BRDCLM	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	C13DCP	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	C2AVE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*83	C2H3CL	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	C2H5CL	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*83	C6H6	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	CCL4	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	CH2CL2	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*83	CH3BR	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	CH3CL	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	CHBR3	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	CHCL3	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	CLC6H5	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	CS2	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*83	DBRCLM	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	ETC6H5	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	MEC6H5	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	MEK	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Media Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
																	BEI
ES	NEEC	SNGW2*83	MIBK	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*83	MNBK	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*83	STYR	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	T13DCP	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	TCLEA	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	TCLEE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	TRCLE	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	TXYLEN	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*83	UNK025	R	0.00	CGW	RNSW	TRUCK#139	VMS2/W	29-APR-96		20.00	UGL	S			
																	BEI
ES	PETP	SNGW2*83	135TNB	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	13DNB	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	246TNT	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	24DNT	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.06	UGL				BEI
		SNGW2*83	26DNT	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.07	UGL				BEI
		SNGW2*83	2A46DT	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	2NT	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*83	3NT	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*83	4A26DT	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	4NT	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*83	HMX	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*83	NB	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	RDX	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	0.20	UGL				BEI
		SNGW2*83	TETRYL	R	0.00	CGW	RNSW	TRUCK#139	EXL1/W	16-MAY-96	LT	1.00	UGL				BEI
ES	QANA	SNGW2*83	NIT	R	0.00	CGW	RNSW	TRUCK#139	ANA2/W	14-MAY-96	LT	20.00	UGL				BEI
																	BEI
ES	RIOB	SNGW2*83	245T	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	245TP	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	24D	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	24DB	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	DALA	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	DCAMBA	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	DICP	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	0.10	UGL				BEI
		SNGW2*83	DINO	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	3.00	UGL				BEI
		SNGW2*83	MCPA	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT	3.00	UGL				BEI
		SNGW2*83	MCPP	R	0.00	CGW	RNSW	TRUCK#139	HBG1/W	02-MAY-96	LT						
																	BEI
ES	SAIA	SNGW2*83	CL	R	0.00	CGW	RNSW	TRUCK#139	ANI1/W	13-MAY-96	LT	500.00	UGL				BEI
		SNGW2*83	F	R	0.00	CGW	RNSW	TRUCK#139	ANI1/W	13-MAY-96	LT	500.00	UGL				BEI
		SNGW2*83	SO4	R	0.00	CGW	RNSW	TRUCK#139	ANI1/W	13-MAY-96	LT	5000.00	UGL				
																	BEI
ES	SCNC	SNGW2*83	ABHC	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		SNGW2*83	AENSLF	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI

19-SEP-97 08:09:54

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCNC	SNGW2*83	BBHC	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	BENSLF	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	CLDAN	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.03	UGL				BEI
		SNGW2*83	DBHC	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	DLDRN	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	ENDRN	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	ENDRNA	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.02	UGL				BEI
		SNGW2*83	ENDRNK	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	ESFSO4	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	GCLDAN	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	HPCL	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	HPCLE	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	LIN	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	MEXCLR	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL		P		BEI
		SNGW2*83	PCB016	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*83	PCB221	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*83	PCB232	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*83	PCB242	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*83	PCB248	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*83	PCB254	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*83	PCB260	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.13	UGL				BEI
		SNGW2*83	PPDDD	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	PPDDE	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*83	PPDDT	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.01	UGL		PORJ		BEI
		SNGW2*83	TXPHEN	R	0.00	CGW	RNSW	TRUCK#139	PST1/W	16-MAY-96	LT	0.60	UGL				BEI
ES	TFZA	SNGW2*83	SE	R	0.00	CGW	RNSW	TRUCK#139	GSE1/W	16-MAY-96	LT	2.50	UGL				BEI
ES	UAZA	SNGW2*83	CYN	R	0.00	CGW	RNSW	TRUCK#139	CYN1/W	04-MAY-96	LT	2.50	UGL				BEI
ES	UGLB	SNGW2*83	HG	R	0.00	CGW	RNSW	TRUCK#139	HGC1/W	16-MAY-96	LT	0.20	UGL				BEI
ES	VFVC	SNGW2*83	124TCB	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	12DCLB	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	13DCLB	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	14DCLB	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	245TCP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	246TCP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	24DCLP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	24DMPN	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	24DNP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	30.00	UGL				BEI
		SNGW2*83	24DNT	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	26DNT	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	2CLP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	2CNAP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	2MNAP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFVC	SNGW2*83	2NANIL	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*83	2NP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	33DCBD	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*83	3NANIL	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*83	46DN2C	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	20.00	UGL				BEI
		SNGW2*83	4BRPPE	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	4CANIL	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	4CL3C	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	4CLPPE	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	4MP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	4NANIL	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*83	4NP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	20.00	UGL				BEI
		SNGW2*83	ANAPNE	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	ANAPYL	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	ANTRC	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	B2CEXM	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	B2CIPE	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	B2CLEE	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	B2EHP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	BAANTR	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	BAPYR	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	BBFANT	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	BBZP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	BENZOA	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	20.00	UGL				BEI
		SNGW2*83	BGHIPY	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	BKFANT	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	BZALC	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	CARBAZ	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	CHRY	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	CL6BZ	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	CL6CP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*83	CL6ET	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	DBAHA	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	DBZFUR	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	DEP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	DMP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	DNBP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	DNOP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	FANT	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	FLRENE	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	HCBD	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	ICDPYR	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	ISOPHR	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	NAP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	NB	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	NNDNPA	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	NNDPA	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
		SNGW2*83	PCP	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	10.00	UGL				BEI
		SNGW2*83	PHANTR	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96	LT	2.00	UGL				BEI
[redacted]																	
					0.00				SMV1/W	01-MAY-96	LT	2.00	UGL				BEI

19-SEP-97 08:09:54

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFVC	SNGW2*83	UNK520	R	0.00	CGW	RNSW	TRUCK#139	SMV1/W	01-MAY-96		6.00	UGL	S			BEI
ES	WAZA	SNGW2*83	AS	R	0.00	CGW	RNSW	TRUCK#139	GAS1/W	16-MAY-96	LT	2.50	UGL				BEI
ES	YAZA	SNGW2*83	PB	R	0.00	CGW	RNSW	TRUCK#139	GPB1/W	17-MAY-96	LT	2.00	UGL				BEI
ES	ZJSB	SNGW2*83	1MNAP	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	2MNAP	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	ANAPNE	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	ANAPYL	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	ANTRC	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.10	UGL				BEI
		SNGW2*83	BAANTR	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.02	UGL				BEI
		SNGW2*83	BAPYR	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.01	UGL				BEI
		SNGW2*83	BBFANT	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.10	UGL				BEI
		SNGW2*83	BGHIPY	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.10	UGL				BEI
		SNGW2*83	BKFANT	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.01	UGL				BEI
		SNGW2*83	CHRY	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.10	UGL				BEI
		SNGW2*83	DBAHA	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.05	UGL				BEI
		SNGW2*83	FANT	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.02	UGL				BEI
		SNGW2*83	FLRENE	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.50	UGL				BEI
		SNGW2*83	ICDPYR	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.05	UGL				BEI
		SNGW2*83	NAP	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	2.00	UGL				BEI
		SNGW2*83	PHANTR	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.50	UGL				BEI
		SNGW2*83	PYR	R	0.00	CGW	RNSW	TRUCK#139	PAH1/W	30-APR-96	LT	0.10	UGL				BEI
ES	ZKAB	SNGW2*83	COD	R	0.00	CGW	RNSW	TRUCK#139	4104/W	09-MAY-96	LT	5000.00	UGL				BEI
ES	ZKBB	SNGW2*83	ALK	R	0.00	CGW	RNSW	TRUCK#139	3101/W	04-MAY-96	LT	5000.00	UGL				BEI
ES	ZKEA	SNGW2*83	TDS	R	0.00	CGW	RNSW	TRUCK#139	1601/W	25-APR-96		13000.00	UGL				BEI
ES	ZKEB	SNGW2*83	HARD	R	0.00	CGW	RNSW	TRUCK#139	1302/W	30-APR-96	LT	1000.00	UGL				BEI
ES	ZKRB	SNGW2*83	TOC	R	0.00	CGW	RNSW	TRUCK#139	4151/W	10-MAY-96	LT	1000.00	UGL				BEI

** End of Report - 208 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
																	BEI
ES	LLAA	SNGW2*86	135TNB	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*86	13DNB	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.10	UGL		J		BEI
		SNGW2*86	246TNT	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*86	24DNT	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.06	UGL				BEI
		SNGW2*86	26DNT	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.07	UGL				BEI
		SNGW2*86	2A46DT	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*86	2NT	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.20	UGL				BEI
		SNGW2*86	3NT	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.20	UGL				BEI
		SNGW2*86	4A26DT	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*86	4NT	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.20	UGL				BEI
		SNGW2*86	HMX	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.20	UGL				BEI
		SNGW2*86	NB	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.10	UGL				BEI
		SNGW2*86	RDX	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	0.20	UGL		IR		BEI
		SNGW2*86	TETRYL	R	0.00	CGW	RNSW	RINSETRUCK	EXL1/W	05-JUN-96	LT	1.00	UGL				BEI
																	BEI
ES	MGBB	SNGW2*86	TL	R	0.00	CGW	RNSW	RINSETRUCK	GTL1/W	30-MAY-96	LT	2.50	UGL				BEI
ES	MHQB	SNGW2*86	AG	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*86	AL	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	40.00	UGL				BEI
		SNGW2*86	B	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96		66.50	UGL				BEI
		SNGW2*86	BA	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	25.00	UGL				BEI
		SNGW2*86	BE	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*86	CA	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96		292.00	UGL				BEI
		SNGW2*86	CD	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*86	CO	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	20.00	UGL				BEI
		SNGW2*86	CR	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	CU	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*86	FE	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	45.00	UGL				BEI
		SNGW2*86	K	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	550.00	UGL				BEI
		SNGW2*86	MG	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96		84.80	UGL				BEI
		SNGW2*86	MN	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*86	NA	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96		240.00	UGL		I		BEI
		SNGW2*86	NI	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	15.00	UGL				BEI
		SNGW2*86	SB	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	50.00	UGL				BEI
		SNGW2*86	V	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	ZN	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	20.00	UGL				BEI
																	BEI
ES	NEKC	SNGW2*86	111TCE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	112TCE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	11DCE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	11DCLE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	12DCE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	12DCLE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	12DCLP	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	2CLEVE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	ACET	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	BRDCLM	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	C13DCP	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEKC	SNGW2*86	C2AVE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	C2H3CL	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	C2H5CL	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	C6H6	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	CCL4	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	CH2CL2	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	CH3BR	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	CH3CL	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	CHBR3	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	CHCL3	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	CLC6H5	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	CS2	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	DBRCLM	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	ETC6H5	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	MEC6H5	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	MEK	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	MIBK	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	MNBK	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	STYR	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	T13DCP	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	TCLEA	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	TCLEE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	TRCLE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	TXYLEN	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*86	UNK025	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96		20.00	UGL	S			BEI
ES	QAPA	SNGW2*86	NIT	R	0.00	CGW	RNSW	RINSETRUCK	ANA2/W	23-MAY-96	LT	20.00	UGL				BEI
ES	RIRB	SNGW2*86	245T	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	245TP	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	24D	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	24DB	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL		M		BEI
		SNGW2*86	DALA	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	DCAMBA	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	DICP	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	DINO	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	MCPA	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	3.00	UGL				BEI
		SNGW2*86	MCPP	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	3.00	UGL				BEI
ES	SAKA	SNGW2*86	CL	R	0.00	CGW	RNSW	RINSETRUCK	ANI1/W	29-MAY-96	LT	500.00	UGL				BEI
		SNGW2*86	F	R	0.00	CGW	RNSW	RINSETRUCK	ANI1/W	29-MAY-96	LT	500.00	UGL				BEI
		SNGW2*86	SO4	R	0.00	CGW	RNSW	RINSETRUCK	ANI1/W	29-MAY-96	LT	5000.00	UGL				BEI
ES	TFBB	SNGW2*86	SE	R	0.00	CGW	RNSW	RINSETRUCK	GSE1/W	04-JUN-96	LT	2.50	UGL				BEI
ES	UBAB	SNGW2*86	CYN	R	0.00	CGW	RNSW	RINSETRUCK	CYN1/W	10-MAY-96	LT	2.50	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UAAB																
ES	UGPB	SNGW2*86	HG	R	0.00	CGW	RNSW	RINSETRUCK	HGC1/W	25-MAY-96	LT	0.20	UGL				BEI
ES	VFBD	SNGW2*86	124TCB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	12DCLB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	13DCLB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	14DCLB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	245TCP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	246TCP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	24DCLP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	24DMPN	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	24DNP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	30.00	UGL		R		BEI
		SNGW2*86	24DNT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	26DNT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	2CLP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	2CNAP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	2MNAP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	2MP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	2NANIL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*86	2NP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	33DCBD	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*86	3NANIL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*86	46DN2C	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	20.00	UGL		R		BEI
		SNGW2*86	4BRPPE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	4CANIL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	4CL3C	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	4CLPPE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	4MP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	4NANIL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*86	4NP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	20.00	UGL		R		BEI
		SNGW2*86	ANAPNE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	ANAPYL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	ANTRC	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	B2CEXM	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	B2CIPE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	B2CLEE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	B2EHP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	BAANTR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	BAPYR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	BBFANT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	BBZP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	BENZOA	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	20.00	UGL		R		BEI
		SNGW2*86	BGHIPY	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	BKFANT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	BZALC	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	CARBAZ	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	CHRY	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
[redacted]		[redacted]	BZ	[redacted]	[redacted].00	[redacted]	RNSW	[redacted]ETRU	[redacted]SMV1/	[redacted]-MAY	[redacted]LT	[redacted] 2.0	[redacted]GL	[redacted]	R	[redacted]	[redacted]	B[redacted]	[redacted]	[redacted]	[redacted]
			CL6CB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFBD	SNGW2*86	CL6ET	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	DBAHA	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	DBZFUR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	DEP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	DMP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	DNBP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	DNOP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	FANT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	FLRENE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	HCBD	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	ICDPYR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	ISOPHR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	NAP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	NB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	NNDNPA	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	NNDPA	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	PCP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*86	PHANTR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	PHENOL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96		17.00	UGL		R		BEI
		SNGW2*86	PYR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*86	UNK515	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96		4.00	UGL	S	R		BEI
ES	WABB	SNGW2*86	AS	R	0.00	CGW	RNSW	RINSETRUCK	GAS1/W	02-JUN-96	LT	2.50	UGL		J		BEI
ES	YABB	SNGW2*86	PB	R	0.00	CGW	RNSW	RINSETRUCK	GPB1/W	31-MAY-96	LT	2.00	UGL				BEI
ES	ZJWB	SNGW2*86	1MNAP	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	2MNAP	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	ANAPNE	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	ANAPYL	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	ANTRC	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL		RJ		BEI
		SNGW2*86	BAANTR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.02	UGL				BEI
		SNGW2*86	BAPYR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*86	BBFANT	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	BGHIPY	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	BKFANT	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*86	CHRY	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*86	DBAHA	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.05	UGL				BEI
		SNGW2*86	FANT	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.02	UGL				BEI
		SNGW2*86	FLRENE	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.50	UGL				BEI
		SNGW2*86	ICDPYR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.05	UGL				BEI
		SNGW2*86	NAP	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*86	PHANTR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.50	UGL				BEI
		SNGW2*86	PYR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
ES	ZKAB	SNGW2*86	COD	R	0.00	CGW	RNSW	RINSETRUCK	4104/W	09-MAY-96	LT	5000.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZKDB	SNGW2*86	TDS	R	0.00	CGW	RNSW	RINSETRUCK	1601/W	09-MAY-96	LT	10000.00	UGL				BEI
ES	ZKGB	SNGW2*86	HARD	R	0.00	CGW	RNSW	RINSETRUCK	1302/W	14-MAY-96	LT	1000.00	UGL				BEI
ES	ZKIB	SNGW2*86	ALK	R	0.00	CGW	RNSW	RINSETRUCK	3101/W	15-MAY-96	LT	5000.00	UGL				BEI
ES	ZKSC	SNGW2*86	TOC	R	0.00	CGW	RNSW	RINSETRUCK	4151/W	27-MAY-96	LT	1000.00	UGL				BEI

** End of Report - 179 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGOA	NP2TB*27	TL	R	0.00	CSO	RNSW	LF2RN02	GTL1/W	07-DEC-95	LT	2.50	UGL				BEI
ES	MHQA	NP2TB*27	AG	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*27	AL	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	40.00	UGL				BEI
		NP2TB*27	BA	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	25.00	UGL				BEI
		NP2TB*27	BE	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*27	CA	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95		121.00	UGL				BEI
		NP2TB*27	CD	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL		J		BEI
		NP2TB*27	CO	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	20.00	UGL				BEI
		NP2TB*27	CR	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	10.00	UGL				BEI
		NP2TB*27	CU	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*27	FE	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	45.00	UGL				BEI
		NP2TB*27	K	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	550.00	UGL				BEI
		NP2TB*27	MG	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	50.00	UGL				BEI
		NP2TB*27	MN	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*27	NA	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95		410.00	UGL				BEI
		NP2TB*27	NI	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	15.00	UGL				BEI
		NP2TB*27	SB	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	50.00	UGL				BEI
		NP2TB*27	V	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	10.00	UGL				BEI
		NP2TB*27	ZN	R	0.00	CSO	RNSW	LF2RN02	ICP1/W	08-DEC-95	LT	20.00	UGL				BEI
ES	NEZA	NP2TB*27	111TCE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	112TCE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	11DCE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	11DCLE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	12DCE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	12DCLE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	12DCLP	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	2CLEVE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	ACET	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95		17.00	UGL				BEI
		NP2TB*27	BRDCLM	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	C13DCP	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	C2AVE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	C2H3CL	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	C2H5CL	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	C6H6	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CCL4	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CH2CL2	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	CH3BR	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CH3CL	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CHBR3	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CHCL3	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CLC6H5	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CS2	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	DBRCLM	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	ETC6H5	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	MEC6H5	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	MEK	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	MIBK	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEZA	NP2TB*27	MNBK	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	STYR	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	T13DCP	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	TCLEA	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	TCLEE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	TRCLE	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	TXYLEN	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	UNK026	R	0.00	CSO	RNSW	LF2RN02	VMS2/W	13-NOV-95		50.00	UGL	S			BEI
ES	PEKN	NP2TB*27	135TNB	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.10	UGL				BEI
		NP2TB*27	13DNB	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.10	UGL				BEI
		NP2TB*27	246TNT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.10	UGL				BEI
		NP2TB*27	24DNT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.06	UGL				BEI
		NP2TB*27	26DNT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.07	UGL				BEI
		NP2TB*27	2A46DT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.10	UGL		I		BEI
		NP2TB*27	2NT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.20	UGL				BEI
		NP2TB*27	3NT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.20	UGL				BEI
		NP2TB*27	4A26DT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.10	UGL				BEI
		NP2TB*27	4NT	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.20	UGL				BEI
		NP2TB*27	HMX	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.20	UGL				BEI
		NP2TB*27	NB	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.10	UGL		M		BEI
		NP2TB*27	RDX	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	0.20	UGL				BEI
		NP2TB*27	TETRYL	R	0.00	CSO	RNSW	LF2RN02	EXL1/W	06-DEC-95	LT	1.00	UGL				BEI
ES	RIUA	NP2TB*27	245T	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	0.10	UGL				BEI
		NP2TB*27	245TP	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	0.10	UGL				BEI
		NP2TB*27	24D	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	0.10	UGL				BEI
		NP2TB*27	24DB	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	0.10	UGL				BEI
		NP2TB*27	DALA	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	0.10	UGL				BEI
		NP2TB*27	DCAMBA	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	0.10	UGL				BEI
		NP2TB*27	DICP	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	0.10	UGL		JNR		BEI
		NP2TB*27	DINO	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	0.10	UGL				BEI
		NP2TB*27	MCPA	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	3.00	UGL				BEI
		NP2TB*27	MCPP	R	0.00	CSO	RNSW	LF2RN02	HBG1/W	18-NOV-95	LT	3.00	UGL				BEI
ES	SCAB	NP2TB*27	ABHC	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	ACLDAN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	AENSLF	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	ALDRN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	BBHC	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	BENSLF	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	CLDAN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.03	UGL				BEI
		NP2TB*27	DBHC	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	DLDRN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	ENDRN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	ENDRNA	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.02	UGL				BEI
[redacted]																	
		NP2TB*27	ESFSO4	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCAB	NP2TB*27	GCLDAN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	HPCL	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	HPCLE	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	LIN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	MEXCLR	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	PCB016	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.13	UGL				BEI
		NP2TB*27	PCB221	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.13	UGL				BEI
		NP2TB*27	PCB232	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.13	UGL				BEI
		NP2TB*27	PCB242	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.13	UGL				BEI
		NP2TB*27	PCB248	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.13	UGL				BEI
		NP2TB*27	PCB254	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.13	UGL				BEI
		NP2TB*27	PCB260	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.13	UGL				BEI
		NP2TB*27	PPDDD	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	PPDDE	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	PPDDT	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.01	UGL		JO		BEI
		NP2TB*27	TXPHEN	R	0.00	CSO	RNSW	LF2RN02	PST1/W	04-DEC-95	LT	0.60	UGL				BEI
ES	TFOA	NP2TB*27	SE	R	0.00	CSO	RNSW	LF2RN02	GSE1/W	08-DEC-95	LT	2.50	UGL				BEI
ES	UAOA	NP2TB*27	CYN	R	0.00	CSO	RNSW	LF2RN02	CYN1/W	20-NOV-95	LT	2.50	UGL				BEI
ES	UGPA	NP2TB*27	HG	R	0.00	CSO	RNSW	LF2RN02	HGC1/W	30-NOV-95	LT	0.20	UGL				BEI
ES	VFHB	NP2TB*27	124TCB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	12DCLB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	13DCLB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	14DCLB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	245TCP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	246TCP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	24DCLP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	24DMPN	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	24DNP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	30.00	UGL				BEI
		NP2TB*27	24DNT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	26DNT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	2CLP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	2CNAP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	2MNAP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	2MP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	2NANIL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	2NP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	33DCBD	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	3NANIL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	46DN2C	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	20.00	UGL				BEI
		NP2TB*27	4BRPPE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	4CANIL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	4CL3C	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	4CLPPE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFHB	NP2TB*27	4MP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	4NANIL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	4NP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	20.00	UGL				BEI
		NP2TB*27	ANAPNE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	ANAPYL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	ANTRC	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	B2CEXM	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	B2CIPE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	B2CLEE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	B2EHP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	BAANTR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	BAPYR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	BBFANT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	BBZP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	BENZOA	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	20.00	UGL				BEI
		NP2TB*27	BGHIPY	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	BKFANT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	BZALC	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CARBAZ	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CHRY	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CL6BZ	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	CL6CP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	CL6ET	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	DBAHA	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	DBZFUR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	DEP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	DMP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	DNBP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	DNOP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	FANT	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	FLRENE	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	HCBD	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	ICDPYR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	ISOPHR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	NAP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	NB	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	NNDNPA	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	NNDPA	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	PCP	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	10.00	UGL				BEI
		NP2TB*27	PHANTR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	PHENOL	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95		2.90	UGL				BEI
		NP2TB*27	PYR	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95	LT	2.00	UGL				BEI
		NP2TB*27	UNK568	R	0.00	CSO	RNSW	LF2RN02	SMV1/W	21-NOV-95		10.00	UGL	S			BEI
ES	WAOA	NP2TB*27	AS	R	0.00	CSO	RNSW	LF2RN02	GAS1/W	07-DEC-95	LT	2.50	UGL				BEI
ES	YAOA	NP2TB*27	PB	R	0.00	CSO	RNSW	LF2RN02	GPB1/W	08-DEC-95	LT	2.00	UGL				BEI

19-SEP-97 07:42:44

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJGA	NP2TB*27	1MNAP	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	2.00	UGL				BEI
		NP2TB*27	2MNAP	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	2.00	UGL				BEI
		NP2TB*27	ANAPNE	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	2.00	UGL				BEI
		NP2TB*27	ANAPYL	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	2.00	UGL				BEI
		NP2TB*27	ANTRC	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.10	UGL				BEI
		NP2TB*27	BAANTR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.02	UGL				BEI
		NP2TB*27	BAPYR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	BBFANT	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.10	UGL				BEI
		NP2TB*27	BGHIPY	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.10	UGL				BEI
		NP2TB*27	BKFANT	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.01	UGL				BEI
		NP2TB*27	CHRY	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.10	UGL				BEI
		NP2TB*27	DBAHA	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.05	UGL				BEI
		NP2TB*27	FANT	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.02	UGL				BEI
		NP2TB*27	FLRENE	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.50	UGL				BEI
		NP2TB*27	ICDPYR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.05	UGL				BEI
		NP2TB*27	NAP	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	2.00	UGL				BEI
		NP2TB*27	PHANTR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.50	UGL				BEI
		NP2TB*27	PYR	R	0.00	CSO	RNSW	LF2RN02	PAH1/W	04-DEC-95	LT	0.10	UGL				BEI

** End of Report - 198 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGBB	SNGW2*87	TL	R	0.00	CGW	RNSW	RINSETRUCK	GTL1/W	30-MAY-96	LT	2.50	UGL				BEI
ES	MHQB	SNGW2*87	AG	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*87	AL	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	40.00	UGL				BEI
		SNGW2*87	B	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96		52.00	UGL				BEI
		SNGW2*87	BA	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	25.00	UGL				BEI
		SNGW2*87	BE	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*87	CA	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96		194.00	UGL				BEI
		SNGW2*87	CD	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*87	CO	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	20.00	UGL				BEI
		SNGW2*87	CR	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	CU	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*87	FE	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	45.00	UGL				BEI
		SNGW2*87	K	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	550.00	UGL				BEI
		SNGW2*87	MG	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	50.00	UGL				BEI
		SNGW2*87	MN	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	5.00	UGL				BEI
		SNGW2*87	NA	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96		226.00	UGL		I		BEI
		SNGW2*87	NI	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	15.00	UGL				BEI
		SNGW2*87	SB	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	50.00	UGL				BEI
		SNGW2*87	V	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	ZN	R	0.00	CGW	RNSW	RINSETRUCK	ICP1/W	31-MAY-96	LT	20.00	UGL				BEI
ES	NEKC	SNGW2*87	111TCE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	112TCE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	11DCE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	11DCLE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	12DCE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	12DCLE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	12DCLP	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	2CLEVE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	ACET	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96		18.00	UGL				BEI
		SNGW2*87	BRDCLM	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	C13DCP	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	C2AVE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	C2H3CL	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	C2H5CL	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	C6H6	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	CCL4	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	CH2CL2	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	CH3BR	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	CH3CL	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	CHBR3	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	CHCL3	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	CLC6H5	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	CS2	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	DBRCLM	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	ETC6H5	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	MEC6H5	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	MEK	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
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Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEKC	SNGW2*87	MIBK	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	MNBK	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	STYR	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	T13DCP	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	TCLEA	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	TCLEE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	TRCLE	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	TXYLEN	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		SNGW2*87	UNK025	R	0.00	CGW	RNSW	RINSETRUCK	VMS2/W	09-MAY-96		20.00	UGL	S			BEI
ES	RIRB	SNGW2*87	245T	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	245TP	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	24D	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	24DB	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL		M		BEI
		SNGW2*87	DALA	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	DCAMBA	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	DICP	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	DINO	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	MCPA	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	3.00	UGL				BEI
		SNGW2*87	MCPP	R	0.00	CGW	RNSW	RINSETRUCK	HBG1/W	21-MAY-96	LT	3.00	UGL				BEI
ES	TFBB	SNGW2*87	SE	R	0.00	CGW	RNSW	RINSETRUCK	GSE1/W	04-JUN-96	LT	2.50	UGL				BEI
ES	UAAB	SNGW2*87	CYN	R	0.00	CGW	RNSW	RINSETRUCK	CYN1/W	10-MAY-96	LT	2.50	UGL				BEI
ES	UGPB	SNGW2*87	HG	R	0.00	CGW	RNSW	RINSETRUCK	HGC1/W	25-MAY-96	LT	0.20	UGL				BEI
ES	VFBD	SNGW2*87	124TCB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	12DCLB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	13DCLB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	14DCLB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	245TCP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	246TCP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	24DCLP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	24DMPN	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	24DNP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	30.00	UGL		R		BEI
		SNGW2*87	24DNT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	26DNT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	2CLP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	2CNAP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	2MNAP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	2MP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	2NANIL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*87	2NP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	33DCBD	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*87	3NANIL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFBD	SNGW2*87	46DN2C	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	20.00	UGL		R		BEI
		SNGW2*87	4BRPPE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	4CANIL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	4CL3C	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	4CLPPE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	4MP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	4NANIL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*87	4NP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	20.00	UGL		R		BEI
		SNGW2*87	ANAPNE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	ANAPYL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	ANTRC	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	B2CEXM	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	B2CIPE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	B2CLEE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	B2EHP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	BAANTR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	BAPYR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	BBFANT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	BBZP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	BENZOA	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	20.00	UGL		R		BEI
		SNGW2*87	BGHIPY	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	BKFANT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	BZALC	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	CARBAZ	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	CHRY	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	CL6BZ	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	CL6CP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*87	CL6ET	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	DBAHA	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	DBZFUR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	DEP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	DMP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	DNBP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	DNOP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	FANT	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	FLRENE	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	HCBD	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	ICDPYR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	ISOPHR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	NAP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	NB	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	NNDNPA	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	NNDPA	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	PCP	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	10.00	UGL		R		BEI
		SNGW2*87	PHANTR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	PHENOL	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96		4.40	UGL		R		BEI
		SNGW2*87	PYR	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96	LT	2.00	UGL		R		BEI
		SNGW2*87	UNK515	R	0.00	CGW	RNSW	RINSETRUCK	SMV1/W	16-MAY-96		6.00	UGL	S	R		BEI
[redacted]																	
ES	WARR	SNGW2*87	AS	R	0.00	CGW	RNSW	RINSETRUCK	GAS1/W	02-JUN-96	LT	2.50	UGL		J		BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	WABB																
ES	YABB	SNGW2*87	PB	R	0.00	CGW	RNSW	RINSETRUCK	GPB1/W	31-MAY-96	LT	2.00	UGL				BEI
ES	ZJWB	SNGW2*87	1MNAP	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	2MNAP	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	ANAPNE	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	ANAPYL	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	ANTRC	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL		RJ		BEI
		SNGW2*87	BAANTR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.02	UGL				BEI
		SNGW2*87	BAPYR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*87	BBFANT	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	BGHIPY	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	BKFANT	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.01	UGL				BEI
		SNGW2*87	CHRY	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI
		SNGW2*87	DBAHA	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.05	UGL				BEI
		SNGW2*87	FANT	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.02	UGL				BEI
		SNGW2*87	FLRENE	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.50	UGL				BEI
		SNGW2*87	ICDPYR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.05	UGL				BEI
		SNGW2*87	NAP	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	2.00	UGL				BEI
		SNGW2*87	PHANTR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.50	UGL				BEI
		SNGW2*87	PYR	R	0.00	CGW	RNSW	RINSETRUCK	PAH1/W	16-MAY-96	LT	0.10	UGL				BEI

** End of Report - 156 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGOA	NP2TB*25	TL	R	0.00	CSO	RNSW	LF2RN03	GTL1/W	07-DEC-95	LT	2.50	UGL				BEI
ES	MHQA	NP2TB*25	AG	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*25	AL	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	40.00	UGL				BEI
		NP2TB*25	BA	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	25.00	UGL				BEI
		NP2TB*25	BE	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*25	CA	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95		143.00	UGL				BEI
		NP2TB*25	CD	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	5.00	UGL		J		BEI
		NP2TB*25	CO	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	20.00	UGL				BEI
		NP2TB*25	CR	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	10.00	UGL				BEI
		NP2TB*25	CU	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*25	FE	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95		54.50	UGL				BEI
		NP2TB*25	K	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	550.00	UGL				BEI
		NP2TB*25	MG	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	50.00	UGL				BEI
		NP2TB*25	MN	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	5.00	UGL				BEI
		NP2TB*25	NA	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95		394.00	UGL				BEI
		NP2TB*25	NI	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	15.00	UGL				BEI
		NP2TB*25	SB	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	50.00	UGL				BEI
		NP2TB*25	V	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	10.00	UGL				BEI
		NP2TB*25	ZN	R	0.00	CSO	RNSW	LF2RN03	ICP1/W	08-DEC-95	LT	20.00	UGL				BEI
ES	NEAB	NP2TB*25	111TCE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	112TCE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	11DCE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	11DCLE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	12DCE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	12DCLE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	12DCLP	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	2CLEVE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*25	ACET	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95		16.00	UGL				BEI
		NP2TB*25	BRDCLM	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	C13DCP	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	C2AVE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*25	C2H3CL	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	C2H5CL	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*25	C6H6	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	CCL4	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	CH2CL2	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*25	CH3BR	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	CH3CL	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	CHBR3	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	CHCL3	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	CLC6H5	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	CS2	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*25	DBRCLM	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	ETC6H5	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	MEC6H5	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	MEK	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*25	MIBK	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEAB	NP2TB*25	MNBK	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*25	STYR	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	T13DCP	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	TCLEA	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	TCLEE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	TRCLE	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		NP2TB*25	TXYLEN	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		NP2TB*25	UNK026	R	0.00	CSO	RNSW	LF2RN03	VMS2/W	16-NOV-95		20.00	UGL	S			BEI
ES	PELN	NP2TB*25	135TNB	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	13DNB	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	246TNT	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	24DNT	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.06	UGL				BEI
		NP2TB*25	26DNT	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.07	UGL				BEI
		NP2TB*25	2A46DT	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	2NT	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.20	UGL				BEI
		NP2TB*25	3NT	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.20	UGL				BEI
		NP2TB*25	4A26DT	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	4NT	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.20	UGL				BEI
		NP2TB*25	HMX	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.20	UGL				BEI
		NP2TB*25	NB	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.10	UGL		M		BEI
		NP2TB*25	RDX	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	0.20	UGL	U			BEI
		NP2TB*25	TETRYL	R	0.00	CSO	RNSW	LF2RN03	EXL1/W	08-DEC-95	LT	1.00	UGL				BEI
ES	RIVA	NP2TB*25	245T	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	0.10	UGL		JN		BEI
		NP2TB*25	245TP	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	0.10	UGL		N		BEI
		NP2TB*25	24D	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	24DB	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	DALA	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	DCAMBA	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	DICP	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	DINO	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	MCPA	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	3.00	UGL				BEI
		NP2TB*25	MCPP	R	0.00	CSO	RNSW	LF2RN03	HBG1/W	05-DEC-95	LT	3.00	UGL				BEI
ES	SCBB	NP2TB*25	ABHC	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	ACLDAN	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	AENSLF	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	ALDRN	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	BBHC	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	BENSLF	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	CLDAN	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.03	UGL				BEI
		NP2TB*25	DBHC	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	DLDRN	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	ENDRN	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	ENDRNA	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.02	UGL				BEI
		NP2TB*25	ENDRNK	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	ESFSO4	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCBB	NP2TB*25	GCLDAN	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	HPCL	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	HPCLE	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	LIN	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	MEXCLR	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	PCB016	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*25	PCB221	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*25	PCB232	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*25	PCB242	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*25	PCB248	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*25	PCB254	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*25	PCB260	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.13	UGL				BEI
		NP2TB*25	PPDDD	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	PPDDE	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	PPDDT	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	TXPHEN	R	0.00	CSO	RNSW	LF2RN03	PST1/W	07-DEC-95	LT	0.60	UGL				BEI
ES	TFOA	NP2TB*25	SE	R	0.00	CSO	RNSW	LF2RN03	GSE1/W	08-DEC-95	LT	2.50	UGL				BEI
ES	UAOA	NP2TB*25	CYN	R	0.00	CSO	RNSW	LF2RN03	CYN1/W	20-NOV-95	LT	2.50	UGL				BEI
ES	UGPA	NP2TB*25	HG	R	0.00	CSO	RNSW	LF2RN03	HGC1/W	30-NOV-95	LT	0.20	UGL				BEI
ES	VFIB	NP2TB*25	124TCB	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	12DCLB	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	13DCLB	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	14DCLB	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	245TCP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	246TCP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	24DCLP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	24DMPN	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	24DNP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	30.00	UGL				BEI
		NP2TB*25	24DNT	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	26DNT	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	2CLP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	2CNAP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	2MNAP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	2MP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	2NANIL	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*25	2NP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	33DCBD	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*25	3NANIL	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*25	46DN2C	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	20.00	UGL				BEI
		NP2TB*25	4BRPPE	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	4CANIL	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		NP2TB*25	4CLPPE	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI

19-SEP-97 07:44:22

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFIB	NP2TB*25	4MP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	4NANIL	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*25	4NP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	20.00	UGL				BEI
		NP2TB*25	ANAPNE	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	ANAPYL	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	ANTRC	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	B2CEXM	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	B2CIPE	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	B2CLEE	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	B2EHP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	BAANTR	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	BAPYR	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	BBFANT	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	BBZP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	BENZOA	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	20.00	UGL				BEI
		NP2TB*25	BGHIPY	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	BKFANT	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	BZALC	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	CARBAZ	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	CHRY	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	CL6BZ	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	CL6CP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*25	CL6ET	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	DBAHA	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	DBZFUR	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	DEP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	DMP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	DNBP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	DNOP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	FANT	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	FLRENE	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	HCBD	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	ICDPYR	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	ISOPHR	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	NAP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	NB	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	NNDNPA	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	NNDPA	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	PCP	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	10.00	UGL				BEI
		NP2TB*25	PHANTR	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	PHENOL	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95		5.20	UGL				BEI
		NP2TB*25	PYR	R	0.00	CSO	RNSW	LF2RN03	SMV1/W	06-DEC-95	LT	2.00	UGL				BEI
ES	WAOA	NP2TB*25	AS	R	0.00	CSO	RNSW	LF2RN03	GAS1/W	07-DEC-95	LT	2.50	UGL				BEI
ES	YAOA	NP2TB*25	PB	R	0.00	CSO	RNSW	LF2RN03	GPB1/W	08-DEC-95	LT	2.00	UGL				BEI
ES	ZJIA	NP2TB*25	1MNAP	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJIA	NP2TB*25	2MNAP	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	ANAPNE	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	ANAPYL	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	ANTRC	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	BAANTR	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.02	UGL				BEI
		NP2TB*25	BAPYR	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	BBFANT	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	BGHIPY	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	BKFANT	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.01	UGL				BEI
		NP2TB*25	CHRY	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI
		NP2TB*25	DBAHA	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.05	UGL				BEI
		NP2TB*25	FANT	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.02	UGL				BEI
		NP2TB*25	FLRENE	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.50	UGL				BEI
		NP2TB*25	ICDPYR	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.05	UGL				BEI
		NP2TB*25	NAP	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	2.00	UGL				BEI
		NP2TB*25	PHANTR	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.50	UGL				BEI
		NP2TB*25	PYR	R	0.00	CSO	RNSW	LF2RN03	PAH1/W	05-DEC-95	LT	0.10	UGL				BEI

** End of Report - 197 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	LLKA	SNRT3*14	135TNB	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*14	13DNB	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*14	246TNT	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*14	24DNT	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.06	UGL				BEI
		SNRT3*14	26DNT	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.07	UGL				BEI
		SNRT3*14	2A46DT	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*14	2NT	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*14	3NT	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*14	4A26DT	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*14	4NT	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*14	HMX	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*14	NB	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*14	RDX	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*14	TETRYL	R	0.00	CSE	RNSW	RB-SED1	EXL1/W	14-OCT-96	LT	1.00	UGL				BEI
ES	MGEB	SNRT3*14	TL	R	0.00	CSE	RNSW	RB-SED1	GTL1/W	10-OCT-96	LT	2.50	UGL				BEI
ES	MHDC	SNRT3*14	AG	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*14	AL	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	40.00	UGL				BEI
		SNRT3*14	B	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	50.00	UGL				BEI
		SNRT3*14	BA	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	25.00	UGL				BEI
		SNRT3*14	BE	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*14	CA	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	100.00	UGL				BEI
		SNRT3*14	CD	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*14	CO	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	20.00	UGL				BEI
		SNRT3*14	CR	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	10.00	UGL				BEI
		SNRT3*14	CU	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*14	FE	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	45.00	UGL				BEI
		SNRT3*14	K	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	550.00	UGL				BEI
		SNRT3*14	MG	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	50.00	UGL				BEI
		SNRT3*14	MN	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*14	NA	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96		195.00	UGL		I		BEI
		SNRT3*14	NI	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	15.00	UGL				BEI
		SNRT3*14	SB	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	50.00	UGL				BEI
		SNRT3*14	V	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	10.00	UGL				BEI
		SNRT3*14	ZN	R	0.00	CSE	RNSW	RB-SED1	ICP1/W	16-OCT-96	LT	20.00	UGL				BEI
ES	SCND	SNRT3*14	ABHC	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	ACLDAN	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	AENSLF	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	ALDRN	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	BBHC	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	BENSLF	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	CLDAN	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.03	UGL		L		BEI
		SNRT3*14	DBHC	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	DLDRN	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	ENDRN	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	ENDRNA	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.02	UGL		L		BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCND	SNRT3*14	ENDRNK	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	ESFSO4	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	GCLDAN	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	HPCL	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	HPCLE	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	LIN	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	MEXCLR	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	PCB016	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*14	PCB221	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*14	PCB232	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*14	PCB242	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*14	PCB248	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*14	PCB254	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*14	PCB260	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*14	PPDDD	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	PPDDE	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	PPDDT	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*14	TXPHEN	R	0.00	CSE	RNSW	RB-SED1	PST1/W	28-OCT-96	LT	0.60	UGL		L		BEI
ES	TFEB	SNRT3*14	SE	R	0.00	CSE	RNSW	RB-SED1	GSE1/W	11-OCT-96	LT	2.50	UGL				BEI
ES	UAMB	SNRT3*14	CYN	R	0.00	CSE	RNSW	RB-SED1	CYN1/W	23-SEP-96	LT	2.50	UGL				BEI
ES	UGDC	SNRT3*14	HG	R	0.00	CSE	RNSW	RB-SED1	HGC1/W	08-OCT-96	LT	0.20	UGL				BEI
ES	VFYD	SNRT3*14	124TCB	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	12DCLB	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	13DCLB	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	14DCLB	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	245TCP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	246TCP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	24DCLP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	24DMPN	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	24DNP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	30.00	UGL				BEI
		SNRT3*14	24DNT	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	26DNT	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	2CLP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	2CNAP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	2MNAP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	2MP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	2NANIL	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*14	2NP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	33DCBD	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*14	3NANIL	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*14	46DN2C	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		SNRT3*14	4CANIL	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI

19-SEP-97 07:45:30

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFYD	SNRT3*14	4CL3C	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	4CLPPE	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	4MP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	4NANIL	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*14	4NP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
		SNRT3*14	ANAPNE	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	ANAPYL	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	ANTRC	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	B2CEXM	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	B2CIPE	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	B2CLEE	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	B2EHP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	BAANTR	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	BAPYR	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	BBFANT	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	BBZP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	BENZOA	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
		SNRT3*14	BGHIPY	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	BKFANT	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	BZALC	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	CARBAZ	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	CHRY	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	CL6BZ	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	CL6CP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*14	CL6ET	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	DBAHA	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	DBZFUR	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	DEP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	DMP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	DNBP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	DNOP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	FANT	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	FLRENE	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	HCBD	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	ICDPYR	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	ISOPHR	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	NAP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	NB	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	NNDNPA	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	NNDPA	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	PCP	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*14	PHANTR	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	PHENOL	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*14	PYR	R	0.00	CSE	RNSW	RB-SED1	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
ES	WAEB	SNRT3*14	AS	R	0.00	CSE	RNSW	RB-SED1	GAS1/W	16-OCT-96	LT	2.50	UGL				BEI
ES	YAEB	SNRT3*14	PB	R	0.00	CSE	RNSW	RB-SED1	GPB1/W	10-OCT-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZKXL	SNRT3*14	TOC	R	0.00	CSE	RNSW	RB-SED1	4151/W	01-OCT-96	LT	1000.00	UGL				BEI

** End of Report - 135 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	LLKA	SNRT3*15	135TNB	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*15	13DNB	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*15	246TNT	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*15	24DNT	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.06	UGL				BEI
		SNRT3*15	26DNT	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.07	UGL				BEI
		SNRT3*15	2A46DT	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*15	2NT	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*15	3NT	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*15	4A26DT	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*15	4NT	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*15	HMX	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*15	NB	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*15	RDX	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*15	TETRYL	R	0.00	CSE	RNSW	RB-SED2	EXL1/W	14-OCT-96	LT	1.00	UGL				BEI
ES	MGEB	SNRT3*15	TL	R	0.00	CSE	RNSW	RB-SED2	GTL1/W	10-OCT-96	LT	2.50	UGL				BEI
ES	MHDC	SNRT3*15	AG	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*15	AL	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	40.00	UGL				BEI
		SNRT3*15	B	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	50.00	UGL				BEI
		SNRT3*15	BA	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	25.00	UGL				BEI
		SNRT3*15	BE	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*15	CA	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	100.00	UGL				BEI
		SNRT3*15	CD	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*15	CO	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	20.00	UGL				BEI
		SNRT3*15	CR	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	10.00	UGL				BEI
		SNRT3*15	CU	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*15	FE	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	45.00	UGL				BEI
		SNRT3*15	K	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	550.00	UGL				BEI
		SNRT3*15	MG	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	50.00	UGL				BEI
		SNRT3*15	MN	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*15	NA	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96		390.00	UGL		I		BEI
		SNRT3*15	NI	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	15.00	UGL				BEI
		SNRT3*15	SB	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	50.00	UGL				BEI
		SNRT3*15	V	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	10.00	UGL				BEI
		SNRT3*15	ZN	R	0.00	CSE	RNSW	RB-SED2	ICP1/W	16-OCT-96	LT	20.00	UGL				BEI
ES	SCND	SNRT3*15	ABHC	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	ACLDAN	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	AENSLF	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	ALDRN	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	BBHC	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	BENSLF	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	CLDAN	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.03	UGL		L		BEI
		SNRT3*15	DBHC	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	DLDRN	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	ENDRN	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	ENDRNA	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.02	UGL		L		BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Media Spike	Site Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCND	SNRT3*15	ENDRNK	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	ESFSO4	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	GCLDAN	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	HPCL	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	HPCLE	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	LIN	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	MEXCLR	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	PCB016	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*15	PCB221	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*15	PCB232	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*15	PCB242	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*15	PCB248	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*15	PCB254	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*15	PCB260	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*15	PPDDD	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	PPDDE	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	PPDDT	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*15	TXPHEN	R	0.00	CSE	RNSW	RB-SED2	PST1/W	28-OCT-96	LT	0.60	UGL		L		BEI
ES	TFEB	SNRT3*15	SE	R	0.00	CSE	RNSW	RB-SED2	GSE1/W	11-OCT-96	LT	2.50	UGL				BEI
ES	UAMB	SNRT3*15	CYN	R	0.00	CGW	RNSW	RB-SED2	CYN1/W	23-SEP-96	LT	2.50	UGL				BEI
ES	UGDC	SNRT3*15	HG	R	0.00	CSE	RNSW	RB-SED2	HGC1/W	08-OCT-96	LT	0.20	UGL				BEI
ES	VFYD	SNRT3*15	124TCB	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	12DCLB	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	13DCLB	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	14DCLB	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	245TCP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	246TCP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	24DCLP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	24DMPN	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	24DNP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	30.00	UGL				BEI
		SNRT3*15	24DNT	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	26DNT	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	2CLP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	2CNAP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	2MNAP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	2MP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	2NANIL	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*15	2NP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	33DCBD	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*15	3NANIL	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*15	46DN2C	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
[redacted]		[redacted]	RPPE	[redacted]	0.00	[redacted]	RNS	SED2	[redacted]	SMV1	[redacted]	5-SE	[redacted]	LT	[redacted]	2.	[redacted]	GL	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		SNRT3*15	4CANIL	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFYD	SNRT3*15	4CL3C	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	4CLPPE	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	4MP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	4NANIL	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*15	4NP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
		SNRT3*15	ANAPNE	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	ANAPYL	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	ANTRC	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	B2CEXM	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	B2CIPE	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	B2CLEE	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	B2EHP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	BAANTR	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	BAPYR	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	BBFANT	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	BBZP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	BENZOA	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
		SNRT3*15	BGHIPY	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	BKFANT	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	BZALC	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	CARBAZ	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	CHRY	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	CL6BZ	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	CL6CP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*15	CL6ET	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	DBAHA	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	DBZFUR	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	DEP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	DMP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	DNBP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	DNOP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	FANT	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	FLRENE	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	HCBD	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	ICDPYR	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	ISOPHR	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	NAP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	NB	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	NNDNPA	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	NNDPA	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	PCP	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*15	PHANTR	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	PHENOL	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*15	PYR	R	0.00	CSE	RNSW	RB-SED2	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
ES	WAEB	SNRT3*15	AS	R	0.00	CSE	RNSW	RB-SED2	GAS1/W	16-OCT-96	LT	2.50	UGL				BEI
ES	YAEB	SNRT3*15	PB	R	0.00	CSE	RNSW	RB-SED2	GPB1/W	10-OCT-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZKXL	SNRT3*15	TOC	R	0.00	CSE	RNSW	RB-SED2	4151/W	01-OCT-96	LT	1000.00	UGL				BEI

** End of Report - 135 Records Found **

Chemical Quality Control Report
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGVA	NP2SW*55	TL	R	0.00	CSW	RNSW	RINSE	GTL1/W	24-MAR-96	LT	2.50	UGL				BEI
ES	MHEB	NP2SW*55	AG	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*55	AL	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		41.40	UGL		I		BEI
		NP2SW*55	B	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*55	BA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	25.00	UGL				BEI
		NP2SW*55	BE	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*55	CA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		115.00	UGL				BEI
		NP2SW*55	CD	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*55	CO	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	20.00	UGL				BEI
		NP2SW*55	CR	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	10.00	UGL				BEI
		NP2SW*55	CU	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*55	FE	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	45.00	UGL				BEI
		NP2SW*55	K	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		598.00	UGL		I		BEI
		NP2SW*55	MG	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*55	MN	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*55	NA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		201.00	UGL		I		BEI
		NP2SW*55	NI	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	15.00	UGL				BEI
		NP2SW*55	SB	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*55	V	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	10.00	UGL				BEI
		NP2SW*55	ZN	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	20.00	UGL				BEI
ES	NEUB	NP2SW*55	111TCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	112TCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	11DCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	11DCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	12DCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	12DCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	12DCLP	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	2CLEVE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		NP2SW*55	ACET	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96		14.00	UGL				BEI
		NP2SW*55	BRDCLM	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	C13DCP	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	C2AVE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		NP2SW*55	C2H3CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	C2H5CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		NP2SW*55	C6H6	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	CCL4	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	CH2CL2	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		NP2SW*55	CH3BR	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	CH3CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	CHBR3	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	CHCL3	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	CLC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	CS2	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		NP2SW*55	DBRCLM	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	ETC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	MEC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	MEK	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
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Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Media Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEUB	NP2SW*55	MIBK	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		NP2SW*55	MNBK	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		NP2SW*55	STYR	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	T13DCP	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	TCLEA	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	TCLEE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	TRCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		NP2SW*55	TXYLEN	R	0.00	CSW	RNSW	RINSE	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
ES	PEVO	NP2SW*55	135TNB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	13DNB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	246TNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	24DNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.06	UGL				BEI
		NP2SW*55	26DNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.07	UGL				BEI
		NP2SW*55	2A46DT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	2NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*55	3NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*55	4A26DT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	4NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*55	HMX	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*55	NB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	RDX	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*55	TETRYL	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	1.00	UGL				BEI
ES	RIIB	NP2SW*55	245T	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	245TP	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	0.10	UGL		N		BEI
		NP2SW*55	24D	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	0.10	UGL		J		BEI
		NP2SW*55	24DB	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	DALA	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	DCAMBA	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	DICP	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	DINO	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	MCPA	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	3.00	UGL				BEI
		NP2SW*55	MCPP	R	0.00	CSW	RNSW	RINSE	HBG1/W	20-MAR-96	LT	3.00	UGL				BEI
ES	SCAC	NP2SW*55	ABHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	ACLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	AENSLF	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	ALDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	BBHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	BENSLF	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	CLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.03	UGL				BEI
		NP2SW*55	DBHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	DLDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	ENDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	ENDRNA	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.02	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		NP2SW*55	ESFSO4	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCAC	NP2SW*55	GCLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	HPCL	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	HPCLE	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	LIN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	MEXCLR	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	PCB016	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*55	PCB221	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*55	PCB232	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*55	PCB242	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*55	PCB248	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*55	PCB254	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*55	PCB260	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*55	PPDDD	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	PPDDE	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	PPDDT	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	TXPHEN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.60	UGL				BEI
ES	TFVA	NP2SW*55	SE	R	0.00	CSW	RNSW	RINSE	GSE1/W	23-MAR-96	LT	2.50	UGL				BEI
ES	UAUA	NP2SW*55	CYN	R	0.00	CSW	RNSW	RINSE	CYN1/W	26-FEB-96	LT	2.50	UGL				BEI
ES	UGDB	NP2SW*55	HG	R	0.00	CSW	RNSW	RINSE	HGC1/W	20-MAR-96	LT	0.20	UGL				BEI
ES	VFHC	NP2SW*55	124TCB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	12DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	13DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	14DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	245TCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	246TCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	24DCLP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	24DMPN	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	24DNP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	30.00	UGL				BEI
		NP2SW*55	24DNT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	26DNT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	2CLP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	2CNAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	2MNAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	2MP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	2NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*55	2NP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	33DCBD	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*55	3NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*55	46DN2C	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*55	4BRPPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	4CANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	4CL3C	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	4CLPPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFHC	NP2SW*55	4MP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	4NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*55	4NP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*55	ANAPNE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	ANAPYL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	ANTRC	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	B2CEXM	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	B2CIPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	B2CLEE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	B2EHP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	BAANTR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	BAPYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	BBFANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	BBZP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	BENZOA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*55	BGHIPY	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	BKFANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	BZALC	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	CARBAZ	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	CHRY	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	CL6BZ	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	CL6CP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*55	CL6ET	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	DBAHA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	DBZFUR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	DEP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	DMP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	DNBP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	DNOP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	FANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	FLRENE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	HCBD	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	ICDPYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	ISOPHR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	NAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	NB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	NNDNPA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	NNDPA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	PCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*55	PHANTR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	PHENOL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96		13.00	UGL				BEI
		NP2SW*55	PYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	UNK517	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96		5.00	UGL	S			BEI
ES	WAVA	NP2SW*55	AS	R	0.00	CSW	RNSW	RINSE	GAS1/W	24-MAR-96	LT	2.50	UGL				BEI
ES	YAVA	NP2SW*55	PB	R	0.00	CSW	RNSW	RINSE	GPB1/W	24-MAR-96	LT	2.00	UGL				BEI

19-SEP-97 07:46:56

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJGB	NP2SW*55	1MNAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	2MNAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	ANAPNE	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	ANAPYL	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	ANTRC	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	BAANTR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.02	UGL				BEI
		NP2SW*55	BAPYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	BBFANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	BGHIPY	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	BKFANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.01	UGL				BEI
		NP2SW*55	CHRY	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*55	DBAHA	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.05	UGL				BEI
		NP2SW*55	FANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.02	UGL				BEI
		NP2SW*55	FLRENE	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.50	UGL				BEI
		NP2SW*55	ICDPYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.05	UGL				BEI
		NP2SW*55	NAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*55	PHANTR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.50	UGL				BEI
		NP2SW*55	PYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI

** End of Report - 198 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGVA	NP2SW*40	TL	R	0.00	CSW	RNSW	RINSE	GTL1/W	24-MAR-96	LT	2.50	UGL				BEI
ES	MHEB	NP2SW*40	AG	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*40	AL	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	40.00	UGL		I		BEI
		NP2SW*40	B	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*40	BA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	25.00	UGL				BEI
		NP2SW*40	BE	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*40	CA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	100.00	UGL				BEI
		NP2SW*40	CD	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*40	CO	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	20.00	UGL				BEI
		NP2SW*40	CR	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	10.00	UGL				BEI
		NP2SW*40	CU	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*40	FE	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	45.00	UGL				BEI
		NP2SW*40	K	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	550.00	UGL		I		BEI
		NP2SW*40	MG	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*40	MN	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*40	NA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		130.00	UGL		I		BEI
		NP2SW*40	NI	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	15.00	UGL				BEI
		NP2SW*40	SB	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*40	V	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	10.00	UGL				BEI
		NP2SW*40	ZN	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	20.00	UGL				BEI
ES	NEVB	NP2SW*40	111TCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	112TCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	11DCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	11DCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	12DCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	12DCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	12DCLP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	2CLEVE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	ACET	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	BRDCLM	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	C13DCP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	C2AVE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	C2H3CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	C2H5CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	C6H6	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	CCL4	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	CH2CL2	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	CH3BR	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	CH3CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	CHBR3	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	CHCL3	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	CLC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	CS2	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	DBRCLM	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	ETC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	MEC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	MEK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEVB	NP2SW*40	MIBK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	MNBK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	STYR	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	T13DCP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	TCLEA	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	TCLEE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	TRCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*40	TXYLEN	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*40	UNK025	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96		30.00	UGL	S			BEI
ES	PEVO	NP2SW*40	135TNB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	13DNB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	246TNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	24DNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.06	UGL				BEI
		NP2SW*40	26DNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.07	UGL				BEI
		NP2SW*40	2A46DT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	2NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*40	3NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*40	4A26DT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	4NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*40	HMX	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*40	NB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	RDX	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*40	TETRYL	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	1.00	UGL				BEI
ES	SCAC	NP2SW*40	ABHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	ACLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	AENSLF	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	ALDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	BBHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	BENSLF	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	CLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.03	UGL				BEI
		NP2SW*40	DBHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	DLDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	ENDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	ENDRNA	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.02	UGL				BEI
		NP2SW*40	ENDRNK	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	ESFSO4	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	GCLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	HPCL	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	HPCLE	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	LIN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	MEXCLR	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	PCB016	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*40	PCB221	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*40	PCB232	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*40	PCB242	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*40	PCB248	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*40	PCB254	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCAC	NP2SW*40	PCB260	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*40	PPDDD	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	PPDDE	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	PPDDT	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	TXPHEN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.60	UGL				BEI
ES	TFVA	NP2SW*40	SE	R	0.00	CSW	RNSW	RINSE	GSE1/W	23-MAR-96	LT	2.50	UGL				BEI
ES	UAVA	NP2SW*40	CYN	R	0.00	CSW	RNSW	RINSE	CYN1/W	05-MAR-96	LT	2.50	UGL				BEI
ES	UGDB	NP2SW*40	HG	R	0.00	CSW	RNSW	RINSE	HGC1/W	20-MAR-96	LT	0.20	UGL				BEI
ES	VFIC	NP2SW*40	124TCB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	12DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	13DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	14DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	245TCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	246TCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	24DCLP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	24DMPN	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	24DNP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	30.00	UGL				BEI
		NP2SW*40	24DNT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	26DNT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	2CLP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	2CNAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	2MNAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	2MP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	2NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*40	2NP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	33DCBD	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*40	3NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*40	46DN2C	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*40	4BRPPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	4CANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	4CL3C	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	4CLPPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	4MP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	4NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*40	4NP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*40	ANAPNE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	ANAPYL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	ANTRC	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	B2CEXM	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	B2CIPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	B2CLEE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
[redacted]																	
		NP2SW*40	BAANTR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFIC	NP2SW*40	BAPYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	BBFANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	BBZP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	BENZOA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*40	BGHIPY	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	BKFANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	BZALC	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	CARBAZ	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	CHRY	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	CL6BZ	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	CL6CP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*40	CL6ET	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	DBAHA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	DBZFUR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	DEP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	DMP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	DNBP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	DNOP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	FANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	FLRENE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	HCBD	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	ICDPYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	ISOPHR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	NAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	NB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	NNDNPA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	NNDPA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	PCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*40	PHANTR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	PHENOL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96		33.00	UGL				BEI
		NP2SW*40	PYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	UNK562	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96		5.00	UGL	S			BEI
ES	WAVA	NP2SW*40	AS	R	0.00	CSW	RNSW	RINSE	GAS1/W	24-MAR-96	LT	2.50	UGL				BEI
ES	YAVA	NP2SW*40	PB	R	0.00	CSW	RNSW	RINSE	GPB1/W	24-MAR-96	LT	2.00	UGL				BEI
ES	ZJGB	NP2SW*40	1MNAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	2MNAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	ANAPNE	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	ANAPYL	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	ANTRC	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	BAANTR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.02	UGL				BEI
		NP2SW*40	BAPYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	BBFANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	BGHIPY	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*40	BKFANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.01	UGL				BEI
		NP2SW*40	CHRY	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJGB	NP2SW*40	DBAHA	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.05	UGL				BEI
		NP2SW*40	FANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.02	UGL				BEI
		NP2SW*40	FLRENE	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.50	UGL				BEI
		NP2SW*40	ICDPYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.05	UGL				BEI
		NP2SW*40	NAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*40	PHANTR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.50	UGL				BEI
		NP2SW*40	PYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI

** End of Report - 189 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGVA	NP2SW*53	TL	R	0.00	CSW	RNSW	RINSE	GTL1/W	24-MAR-96	LT	2.50	UGL				BEI
ES	MHEB	NP2SW*53	AG	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*53	AL	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	40.00	UGL		I		BEI
		NP2SW*53	B	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*53	BA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	25.00	UGL				BEI
		NP2SW*53	BE	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*53	CA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		145.00	UGL				BEI
		NP2SW*53	CD	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*53	CO	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	20.00	UGL				BEI
		NP2SW*53	CR	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	10.00	UGL				BEI
		NP2SW*53	CU	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*53	FE	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	45.00	UGL				BEI
		NP2SW*53	K	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	550.00	UGL		I		BEI
		NP2SW*53	MG	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*53	MN	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*53	NA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		256.00	UGL		I		BEI
		NP2SW*53	NI	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	15.00	UGL				BEI
		NP2SW*53	SB	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*53	V	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	10.00	UGL				BEI
		NP2SW*53	ZN	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	20.00	UGL				BEI
ES	NEVB	NP2SW*53	111TCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	112TCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	11DCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	11DCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	12DCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	12DCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	12DCLP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	2CLEVE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*53	ACET	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96		11.00	UGL				BEI
		NP2SW*53	BRDCLM	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	C13DCP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	C2AVE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*53	C2H3CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	C2H5CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*53	C6H6	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	CCL4	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	CH2CL2	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*53	CH3BR	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	CH3CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	CHBR3	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	CHCL3	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	CLC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	CS2	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*53	DBRCLM	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	ETC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	MEC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	MEK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEVB	NP2SW*53	MIBK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*53	MNBK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*53	STYR	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	T13DCP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	TCLEA	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	TCLEE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	TRCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*53	TXYLEN	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*53	UNK025	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96		20.00	UGL	S			BEI
ES	PEVO	NP2SW*53	135TNB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	13DNB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	246TNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	24DNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.06	UGL				BEI
		NP2SW*53	26DNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.07	UGL				BEI
		NP2SW*53	2A46DT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	2NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*53	3NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*53	4A26DT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	4NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*53	HMX	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*53	NB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	RDX	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*53	TETRYL	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	1.00	UGL				BEI
ES	SCAC	NP2SW*53	ABHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	ACLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	AENSLF	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	ALDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	BBHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	BENSLF	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	CLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.03	UGL				BEI
		NP2SW*53	DBHC	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	DLDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	ENDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	ENDRNA	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.02	UGL				BEI
		NP2SW*53	ENDRNK	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	ESFSO4	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	GCLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	HPCL	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	HPCLE	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	LIN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	MEXCLR	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	PCB016	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*53	PCB221	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*53	PCB232	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*53	PCB242	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		NP2SW*53	PCB254	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCAC	NP2SW*53	PCB260	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.13	UGL				BEI
		NP2SW*53	PPDDD	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	PPDDE	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	PPDDT	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	TXPHEN	R	0.00	CSW	RNSW	RINSE	PST1/W	16-MAR-96	LT	0.60	UGL				BEI
ES	TFVA	NP2SW*53	SE	R	0.00	CSW	RNSW	RINSE	GSE1/W	23-MAR-96	LT	2.50	UGL				BEI
ES	UAVA	NP2SW*53	CYN	R	0.00	CSW	RNSW	RINSE	CYN1/W	05-MAR-96	LT	2.50	UGL				BEI
ES	UGDB	NP2SW*53	HG	R	0.00	CSW	RNSW	RINSE	HGC1/W	20-MAR-96	LT	0.20	UGL				BEI
ES	VFIC	NP2SW*53	124TCB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	12DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	13DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	14DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	245TCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	246TCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	24DCLP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	24DMPN	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	24DNP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	30.00	UGL				BEI
		NP2SW*53	24DNT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	26DNT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	2CLP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	2CNAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	2MNAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	2MP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	2NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*53	2NP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	33DCBD	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*53	3NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*53	46DN2C	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*53	4BRPPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	4CANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	4CL3C	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	4CLPPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	4MP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	4NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*53	4NP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*53	ANAPNE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	ANAPYL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	ANTRC	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	B2CEXM	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	B2CIPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	B2CLEE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	B2EHP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	BAANTR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFIC	NP2SW*53	BAPYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	BBFANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	BBZP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	BENZOA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*53	BGHIPY	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	BKFANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	BZALC	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	CARBAZ	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	CHRY	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	CL6BZ	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	CL6CP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*53	CL6ET	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	DBAHA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	DBZFUR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	DEP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	DMP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	DNBP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	DNOP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	FANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	FLRENE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	HCBD	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	ICDPYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	ISOPHR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	NAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	NB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	NNDNPA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	NNDPA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	PCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*53	PHANTR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	PHENOL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96		9.30	UGL				BEI
		NP2SW*53	PYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
ES	WAVA	NP2SW*53	AS	R	0.00	CSW	RNSW	RINSE	GAS1/W	24-MAR-96	LT	2.50	UGL				BEI
ES	YAVA	NP2SW*53	PB	R	0.00	CSW	RNSW	RINSE	GPB1/W	24-MAR-96	LT	2.00	UGL				BEI
ES	ZJGB	NP2SW*53	1MNAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	2MNAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	ANAPNE	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	ANAPYL	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	ANTRC	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	BAANTR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.02	UGL				BEI
		NP2SW*53	BAPYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.01	UGL				BEI
		NP2SW*53	BBFANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	BGHIPY	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI
		NP2SW*53	BKFANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.01	UGL				BEI
[redacted]																	
		NP2SW*53	DBAHA	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.05	UGL				BEI

19-SEP-97 07:48:25

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJGB	NP2SW*53	FANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.02	UGL				BEI
		NP2SW*53	FLRENE	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.50	UGL				BEI
		NP2SW*53	ICDPYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.05	UGL				BEI
		NP2SW*53	NAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	2.00	UGL				BEI
		NP2SW*53	PHANTR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.50	UGL				BEI
		NP2SW*53	PYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	05-MAR-96	LT	0.10	UGL				BEI

** End of Report - 188 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	MGVA	NP2SW*54	TL	R	0.00	CSW	RNSW	RINSE	GTL1/W	24-MAR-96	LT	2.50	UGL				BEI
ES	MHEB	NP2SW*54	AG	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*54	AL	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	40.00	UGL		I		BEI
		NP2SW*54	B	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*54	BA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	25.00	UGL				BEI
		NP2SW*54	BE	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*54	CA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		110.00	UGL				BEI
		NP2SW*54	CD	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*54	CO	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	20.00	UGL				BEI
		NP2SW*54	CR	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	10.00	UGL				BEI
		NP2SW*54	CU	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*54	FE	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96		73.70	UGL				BEI
		NP2SW*54	K	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	550.00	UGL		I		BEI
		NP2SW*54	MG	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*54	MN	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	5.00	UGL				BEI
		NP2SW*54	NA	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	100.00	UGL		I		BEI
		NP2SW*54	NI	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	15.00	UGL				BEI
		NP2SW*54	SB	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	50.00	UGL				BEI
		NP2SW*54	V	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	10.00	UGL				BEI
		NP2SW*54	ZN	R	0.00	CSW	RNSW	RINSE	ICP1/W	20-MAR-96	LT	20.00	UGL				BEI
ES	NEVB	NP2SW*54	111TCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	112TCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	11DCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	11DCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	12DCE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	12DCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	12DCLP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	1C3L	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96		30.00	UGL	S			BEI
		NP2SW*54	2CLEVE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	ACET	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96		13.00	UGL				BEI
		NP2SW*54	BRDCLM	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	C13DCP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	C2AVE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	C2H3CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	C2H5CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	C6H6	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	CCL4	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	CH2CL2	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	CH3BR	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	CH3CL	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	CHBR3	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	CHCL3	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	CLC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	CS2	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	DBRCLM	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	ETC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	MEC6H5	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
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Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEVB	NP2SW*54	MEK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	MIBK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	MNBK	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	STYR	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	T13DCP	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	TCLEA	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	TCLEE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	TRCLE	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*54	TXYLEN	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*54	UNK025	R	0.00	CSW	RNSW	RINSE	VMS2/W	29-FEB-96		20.00	UGL	S			BEI
ES	PEWO	NP2SW*54	135TNB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	13DNB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	246TNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	24DNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.06	UGL		I		BEI
		NP2SW*54	26DNT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.07	UGL				BEI
		NP2SW*54	2A46DT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	2NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*54	3NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*54	4A26DT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	4NT	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*54	HMX	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL				BEI
		NP2SW*54	NB	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	RDX	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	0.20	UGL		J		BEI
		NP2SW*54	TETRYL	R	0.00	CSW	RNSW	RINSE	EXL1/W	20-MAR-96	LT	1.00	UGL				BEI
ES	SCBC	NP2SW*54	ABHC	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	ACLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL		I		BEI
		NP2SW*54	AENSLF	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	ALDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	BBHC	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	BENSLF	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	CLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.03	UGL				BEI
		NP2SW*54	DBHC	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	DLDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	ENDRN	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	ENDRNA	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.02	UGL				BEI
		NP2SW*54	ENDRNK	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	ESFSO4	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	GCLDAN	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	HPCL	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	HPCLE	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	LIN	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	MEXCLR	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	PCB016	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.13	UGL				BEI
		NP2SW*54	PCB221	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.13	UGL				BEI
		NP2SW*54	PCB232	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.13	UGL				BEI
		NP2SW*54	PCB242	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.13	UGL				BEI
		NP2SW*54	PCB248	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.13	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCBC	NP2SW*54	PCB254	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.13	UGL				BEI
		NP2SW*54	PCB260	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.13	UGL				BEI
		NP2SW*54	PPDDD	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	PPDDE	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	PPDDT	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.01	UGL				BEI
		NP2SW*54	TXPHEN	R	0.00	CSW	RNSW	RINSE	PST1/W	02-APR-96	LT	0.60	UGL				BEI
ES	TFVA	NP2SW*54	SE	R	0.00	CSW	RNSW	RINSE	GSE1/W	23-MAR-96	LT	2.50	UGL				BEI
ES	UAVA	NP2SW*54	CYN	R	0.00	CSW	RNSW	RINSE	CYN1/W	05-MAR-96	LT	2.50	UGL				BEI
ES	UGDB	NP2SW*54	HG	R	0.00	CSW	RNSW	RINSE	HGC1/W	20-MAR-96	LT	0.20	UGL				BEI
ES	VFIC	NP2SW*54	124TCB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	12DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	13DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	14DCLB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	245TCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	246TCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	24DCLP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	24DMPN	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	24DNP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	30.00	UGL				BEI
		NP2SW*54	24DNT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	26DNT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	2CLP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	2CNAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	2MNAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	2MP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	2NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*54	2NP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	33DCBD	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*54	3NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*54	46DN2C	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*54	4BRPPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	4CANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	4CL3C	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	4CLPPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	4MP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	4NANIL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*54	4NP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*54	ANAPNE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	ANAPYL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	ANTRC	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	B2CEXM	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	B2CIPE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
[redacted]																	
		NP2SW*54	B2EHP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFIC	NP2SW*54	BAANTR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	BAPYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	BBFANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	BBZP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	BENZOA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	20.00	UGL				BEI
		NP2SW*54	BGHIPY	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	BKFANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	BZALC	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	CARBAZ	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	CHRY	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	CL6BZ	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	CL6CP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*54	CL6ET	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	DBAHA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	DBZFUR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	DEP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	DMP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	DNBP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	DNOP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	FANT	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	FLRENE	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	HCBD	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	ICDPYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	ISOPHR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	NAP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	NB	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	NNDNPA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	NNDPA	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	PCP	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	10.00	UGL				BEI
		NP2SW*54	PHANTR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	PHENOL	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96		43.00	UGL				BEI
		NP2SW*54	PYR	R	0.00	CSW	RNSW	RINSE	SMV1/W	06-MAR-96	LT	2.00	UGL				BEI
ES	WAVA	NP2SW*54	AS	R	0.00	CSW	RNSW	RINSE	GAS1/W	24-MAR-96	LT	2.50	UGL				BEI
ES	YAVA	NP2SW*54	PB	R	0.00	CSW	RNSW	RINSE	GPB1/W	24-MAR-96	LT	2.00	UGL				BEI
ES	ZJHB	NP2SW*54	1MNAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	2MNAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	ANAPNE	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	ANAPYL	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	ANTRC	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	BAANTR	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.02	UGL				BEI
		NP2SW*54	BAPYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.01	UGL				BEI
		NP2SW*54	BBFANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	BGHIPY	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.10	UGL				BEI
		NP2SW*54	BKFANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.01	UGL				BEI
		NP2SW*54	CHRY	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.10	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	ZJHB	NP2SW*54	DBAHA	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.05	UGL				BEI
		NP2SW*54	FANT	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.02	UGL				BEI
		NP2SW*54	FLRENE	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.50	UGL				BEI
		NP2SW*54	ICDPYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.05	UGL				BEI
		NP2SW*54	NAP	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	2.00	UGL				BEI
		NP2SW*54	PHANTR	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.50	UGL				BEI
		NP2SW*54	PYR	R	0.00	CSW	RNSW	RINSE	PAH1/W	15-MAR-96	LT	0.10	UGL				BEI

** End of Report - 189 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	LLKA	SNRT3*17	135TNB	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*17	13DNB	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*17	246TNT	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*17	24DNT	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.06	UGL				BEI
		SNRT3*17	26DNT	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.07	UGL				BEI
		SNRT3*17	2A46DT	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*17	2NT	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*17	3NT	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*17	4A26DT	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*17	4NT	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*17	HMX	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*17	NB	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.10	UGL				BEI
		SNRT3*17	RDX	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	0.20	UGL				BEI
		SNRT3*17	TETRYL	R	0.00	CSW	RNSW	RB-SW	EXL1/W	14-OCT-96	LT	1.00	UGL				BEI
ES	MGEB	SNRT3*17	TL	R	0.00	CSW	RNSW	RB-SW	GTL1/W	10-OCT-96	LT	2.50	UGL				BEI
ES	MHDC	SNRT3*17	AG	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*17	AL	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	40.00	UGL				BEI
		SNRT3*17	B	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96		65.30	UGL				BEI
		SNRT3*17	BA	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	25.00	UGL				BEI
		SNRT3*17	BE	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*17	CA	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	100.00	UGL				BEI
		SNRT3*17	CD	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*17	CO	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	20.00	UGL				BEI
		SNRT3*17	CR	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	10.00	UGL				BEI
		SNRT3*17	CU	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*17	FE	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	45.00	UGL				BEI
		SNRT3*17	K	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	550.00	UGL				BEI
		SNRT3*17	MG	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	50.00	UGL				BEI
		SNRT3*17	MN	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	5.00	UGL				BEI
		SNRT3*17	NA	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96		407.00	UGL		I		BEI
		SNRT3*17	NI	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	15.00	UGL				BEI
		SNRT3*17	SB	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	50.00	UGL				BEI
		SNRT3*17	V	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	10.00	UGL				BEI
		SNRT3*17	ZN	R	0.00	CSW	RNSW	RB-SW	ICP1/W	16-OCT-96	LT	20.00	UGL				BEI
ES	QAUA	SNRT3*17	NIT	R	0.00	CSW	RNSW	RB-SW	ANA2/W	01-OCT-96	LT	20.00	UGL				BEI
ES	SAOA	SNRT3*17	CL	R	0.00	CSW	RNSW	RB-SW	ANI1/W	02-OCT-96	LT	500.00	UGL				BEI
		SNRT3*17	F	R	0.00	CSW	RNSW	RB-SW	ANI1/W	02-OCT-96	LT	500.00	UGL				BEI
		SNRT3*17	SO4	R	0.00	CSW	RNSW	RB-SW	ANI1/W	02-OCT-96	LT	5000.00	UGL				BEI
ES	SCND	SNRT3*17	ABHC	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	ACLDAN	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	AENSLF	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	SCND	SNRT3*17	ALDRN	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	BBHC	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	BENSLF	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	CLDAN	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.03	UGL		L		BEI
		SNRT3*17	DBHC	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	DLDRN	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	ENDRN	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	ENDRNA	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.02	UGL		L		BEI
		SNRT3*17	ENDRNK	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	ESFSO4	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	GCLDAN	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	HPCL	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	HPCLE	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	LIN	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	MEXCLR	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	PCB016	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*17	PCB221	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*17	PCB232	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*17	PCB242	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*17	PCB248	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*17	PCB254	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*17	PCB260	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.13	UGL		L		BEI
		SNRT3*17	PPDDD	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	PPDDE	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	PPDDT	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.01	UGL		L		BEI
		SNRT3*17	TXPHEN	R	0.00	CSW	RNSW	RB-SW	PST1/W	28-OCT-96	LT	0.60	UGL		L		BEI
ES	TFEB	SNRT3*17	SE	R	0.00	CSW	RNSW	RB-SW	GSE1/W	11-OCT-96	LT	2.50	UGL				BEI
ES	UAMB	SNRT3*17	CYN	R	0.00	CSW	RNSW	RB-SW	CYN1/W	23-SEP-96	LT	2.50	UGL				BEI
ES	UGDC	SNRT3*17	HG	R	0.00	CSW	RNSW	RB-SW	HGC1/W	08-OCT-96	LT	0.20	UGL				BEI
ES	VFYD	SNRT3*17	124TCB	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	12DCLB	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	13DCLB	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	14DCLB	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	245TCP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	246TCP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	24DCLP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	24DMPN	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	24DNP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	30.00	UGL				BEI
		SNRT3*17	24DNT	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	26DNT	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	2CLP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
[redacted]																	
		SNRT3*17	2MNAP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFYD	SNRT3*17	2MP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	2NANIL	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*17	2NP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	33DCBD	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*17	3NANIL	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*17	46DN2C	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
		SNRT3*17	4BRPPE	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	4CANIL	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	4CL3C	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	4CLPPE	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	4MP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	4NANIL	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*17	4NP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
		SNRT3*17	ANAPNE	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	ANAPYL	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	ANTRC	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	B2CEXM	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	B2CIPE	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	B2CLEE	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	B2EHP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	BAANTR	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	BAPYR	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	BBFANT	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	BBZP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	BENZOA	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	20.00	UGL				BEI
		SNRT3*17	BGHIPY	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	BKFANT	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	BZALC	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	CARBAZ	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	CHRY	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	CL6BZ	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	CL6CP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*17	CL6ET	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	DBAHA	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	DBZFUR	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	DEP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	DMP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	DNBP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	DNOP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	FANT	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	FLRENE	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	HCBD	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	ICDPYR	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	ISOPHR	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	NAP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	NB	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	NNDNPA	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	NNDPA	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	PCP	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	10.00	UGL				BEI
		SNRT3*17	PHANTR	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
		SNRT3*17	PHENOL	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VFYD	SNRT3*17	PYR	R	0.00	CSW	RNSW	RB-SW	SMV1/W	25-SEP-96	LT	2.00	UGL				BEI
ES	WAEB	SNRT3*17	AS	R	0.00	CSW	RNSW	RB-SW	GAS1/W	16-OCT-96	LT	2.50	UGL				BEI
ES	YAEB	SNRT3*17	PB	R	0.00	CSW	RNSW	RB-SW	GPB1/W	10-OCT-96	LT	2.00	UGL				BEI
ES	ZKIM	SNRT3*17	COD	R	0.00	CSW	RNSW	RB-SW	4104/W	04-OCT-96	LT	5000.00	UGL				BEI
ES	ZKPK	SNRT3*17	TDS	R	0.00	CSW	RNSW	RB-SW	1601/W	17-SEP-96		15000.00	UGL				BEI
ES	ZKTK	SNRT3*17	ALK	R	0.00	CSW	RNSW	RB-SW	3101/W	19-SEP-96	LT	5000.00	UGL				BEI
ES	ZKUK	SNRT3*17	HARD	R	0.00	CSW	RNSW	RB-SW	1302/W	19-SEP-96	LT	1000.00	UGL				BEI
ES	ZKXL	SNRT3*17	TOC	R	0.00	CSW	RNSW	RB-SW	4151/W	01-OCT-96	LT	1000.00	UGL				BEI

** End of Report - 143 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UBZ	TSHW1*22	111TCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*22	112TCE	T	0.00	CQC			UM20	17-JAN-91	LT	1.30	UGL				C
		TSHW1*22	11DCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.47	UGL				C
		TSHW1*22	11DCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.69	UGL				C
		TSHW1*22	12DCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*22	12DCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*22	12DCLP	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*22	2CLEVE	T	0.00	CQC			UM20	17-JAN-91	LT	0.70	UGL				C
		TSHW1*22	ACET	T	0.00	CQC			UM20	17-JAN-91	LT	14.00	UGL				C
		TSHW1*22	ACROLN	T	0.00	CQC			UM20	17-JAN-91	ND	100.00	UGL	R			C
		TSHW1*22	ACRYLO	T	0.00	CQC			UM20	17-JAN-91	ND	100.00	UGL	R			C
		TSHW1*22	BRDCLM	T	0.00	CQC			UM20	17-JAN-91	LT	0.58	UGL				C
		TSHW1*22	C13DCP	T	0.00	CQC			UM20	17-JAN-91	LT	0.57	UGL				C
		TSHW1*22	C2AVE	T	0.00	CQC			UM20	17-JAN-91	LT	8.40	UGL				C
		TSHW1*22	C2H3CL	T	0.00	CQC			UM20	17-JAN-91	LT	2.70	UGL				C
		TSHW1*22	C2H5CL	T	0.00	CQC			UM20	17-JAN-91	LT	1.90	UGL				C
		TSHW1*22	C6H6	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*22	CCL3F	T	0.00	CQC			UM20	17-JAN-91	LT	1.40	UGL				C
		TSHW1*22	CCL4	T	0.00	CQC			UM20	17-JAN-91	LT	0.55	UGL				C
		TSHW1*22	CH2CL2	T	0.00	CQC			UM20	17-JAN-91	LT	2.20	UGL				C
		TSHW1*22	CH3BR	T	0.00	CQC			UM20	17-JAN-91	LT	5.70	UGL				C
		TSHW1*22	CH3CL	T	0.00	CQC			UM20	17-JAN-91	LT	3.40	UGL				C
		TSHW1*22	CHBR3	T	0.00	CQC			UM20	17-JAN-91	LT	2.50	UGL				C
		TSHW1*22	CHCL3	T	0.00	CQC			UM20	17-JAN-91	LT	0.51	UGL				C
		TSHW1*22	CL2BZ	T	0.00	CQC			UM20	17-JAN-91	ND	10.00	UGL	R			C
		TSHW1*22	CLC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*22	CS2	T	0.00	CQC			UM20	17-JAN-91	LT	0.57	UGL				C
		TSHW1*22	DBRCLM	T	0.00	CQC			UM20	17-JAN-91	LT	0.68	UGL				C
		TSHW1*22	ETC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*22	MEC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*22	MEK	T	0.00	CQC			UM20	17-JAN-91	LT	6.50	UGL				C
		TSHW1*22	MIBK	T	0.00	CQC			UM20	17-JAN-91	LT	3.30	UGL				C
		TSHW1*22	MNBK	T	0.00	CQC			UM20	17-JAN-91	LT	3.90	UGL				C
		TSHW1*22	STYR	T	0.00	CQC			UM20	17-JAN-91	LT	0.45	UGL				C
		TSHW1*22	T13DCP	T	0.00	CQC			UM20	17-JAN-91	LT	0.73	UGL				C
		TSHW1*22	TCLEA	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*22	TCLEE	T	0.00	CQC			UM20	17-JAN-91	LT	1.60	UGL				C
		TSHW1*22	TRCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*22	XYLEN	T	0.00	CQC			UM20	17-JAN-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*38	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*38	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*38	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*38	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*38	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*38	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*38	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*38	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*38	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*38	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*38	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*38	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*38	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*38	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*38	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*38	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*38	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*38	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*38	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*38	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*38	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*38	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*38	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*38	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*38	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*38	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*38	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*38	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*38	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*38	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*38	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*38	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*38	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*38	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*38	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*38	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*38	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*38	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*38	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

19-SEP-97 14:50:46

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*39	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*39	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*39	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*39	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*39	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*39	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*39	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*39	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*39	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*39	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*39	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*39	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*39	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*39	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*39	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*39	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*39	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*39	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*39	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*39	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*39	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*39	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*39	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*39	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*39	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*39	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*39	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*39	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*39	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*39	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*39	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*39	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*39	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*39	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*39	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*39	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*39	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*39	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*39	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*39	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*39	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*39	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*39	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*39	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*39	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*39	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*39	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*39	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*39	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*39	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*39	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*39	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*39	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*39	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*39	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*39	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*39	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*39	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJH	SHSTB*61	111TCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	112TCE	T	0.00	CQC			UM20	03-MAY-91	LT	1.30	UGL				C
		SHSTB*61	11DCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.47	UGL				C
		SHSTB*61	11DCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.69	UGL				C
		SHSTB*61	12DCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	12DCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	12DCLP	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	2CLEVE	T	0.00	CQC			UM20	03-MAY-91	LT	0.70	UGL				C
		SHSTB*61	ACET	T	0.00	CQC			UM20	03-MAY-91	LT	14.00	UGL				C
		SHSTB*61	ACROLN	T	0.00	CQC			UM20	03-MAY-91	ND	100.00	UGL	R			C
		SHSTB*61	ACRYLO	T	0.00	CQC			UM20	03-MAY-91	ND	100.00	UGL	R			C
		SHSTB*61	BRDCLM	T	0.00	CQC			UM20	03-MAY-91	LT	0.58	UGL				C
		SHSTB*61	C13DCP	T	0.00	CQC			UM20	03-MAY-91	LT	0.57	UGL				C
		SHSTB*61	C2AVE	T	0.00	CQC			UM20	03-MAY-91	LT	8.40	UGL				C
		SHSTB*61	C2H3CL	T	0.00	CQC			UM20	03-MAY-91	LT	2.70	UGL				C
		SHSTB*61	C2H5CL	T	0.00	CQC			UM20	03-MAY-91	LT	1.90	UGL				C
		SHSTB*61	C6H6	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	CCL3F	T	0.00	CQC			UM20	03-MAY-91	LT	1.40	UGL				C
		SHSTB*61	CCL4	T	0.00	CQC			UM20	03-MAY-91	LT	0.55	UGL				C
		SHSTB*61	CH2CL2	T	0.00	CQC			UM20	03-MAY-91	LT	2.20	UGL				C
		SHSTB*61	CH3BR	T	0.00	CQC			UM20	03-MAY-91	LT	5.70	UGL				C
		SHSTB*61	CH3CL	T	0.00	CQC			UM20	03-MAY-91	LT	3.40	UGL				C
		SHSTB*61	CHBR3	T	0.00	CQC			UM20	03-MAY-91	LT	2.50	UGL				C
		SHSTB*61	CHCL3	T	0.00	CQC			UM20	03-MAY-91	LT	0.51	UGL				C
		SHSTB*61	CL2BZ	T	0.00	CQC			UM20	03-MAY-91	ND	10.00	UGL	R			C
		SHSTB*61	CLC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	CS2	T	0.00	CQC			UM20	03-MAY-91	LT	0.57	UGL				C
		SHSTB*61	DBRCLM	T	0.00	CQC			UM20	03-MAY-91	LT	0.68	UGL				C
		SHSTB*61	ETC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	MEC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	MEK	T	0.00	CQC			UM20	03-MAY-91	LT	6.50	UGL				C
		SHSTB*61	MIBK	T	0.00	CQC			UM20	03-MAY-91	LT	3.30	UGL				C
		SHSTB*61	MNBK	T	0.00	CQC			UM20	03-MAY-91	LT	3.90	UGL				C
		SHSTB*61	STYR	T	0.00	CQC			UM20	03-MAY-91	LT	0.45	UGL				C
		SHSTB*61	T13DCP	T	0.00	CQC			UM20	03-MAY-91	LT	0.73	UGL				C
		SHSTB*61	TCLEA	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	TCLEE	T	0.00	CQC			UM20	03-MAY-91	LT	1.60	UGL				C
		SHSTB*61	TRCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	XYLEN	T	0.00	CQC			UM20	03-MAY-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UBZ	TSHW1*18	111TCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*18	112TCE	T	0.00	CQC			UM20	17-JAN-91	LT	1.30	UGL				C
		TSHW1*18	11DCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.47	UGL				C
		TSHW1*18	11DCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.69	UGL				C
		TSHW1*18	12DCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*18	12DCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*18	12DCLP	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*18	2CLEVE	T	0.00	CQC			UM20	17-JAN-91	LT	0.70	UGL				C
		TSHW1*18	ACET	T	0.00	CQC			UM20	17-JAN-91	LT	14.00	UGL				C
		TSHW1*18	ACROLN	T	0.00	CQC			UM20	17-JAN-91	ND	100.00	UGL	R			C
		TSHW1*18	ACRYLO	T	0.00	CQC			UM20	17-JAN-91	ND	100.00	UGL	R			C
		TSHW1*18	BRDCLM	T	0.00	CQC			UM20	17-JAN-91	LT	0.58	UGL				C
		TSHW1*18	C13DCP	T	0.00	CQC			UM20	17-JAN-91	LT	0.57	UGL				C
		TSHW1*18	C2AVE	T	0.00	CQC			UM20	17-JAN-91	LT	8.40	UGL				C
		TSHW1*18	C2H3CL	T	0.00	CQC			UM20	17-JAN-91	LT	2.70	UGL				C
		TSHW1*18	C2H5CL	T	0.00	CQC			UM20	17-JAN-91	LT	1.90	UGL				C
		TSHW1*18	C6H6	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*18	CCL3F	T	0.00	CQC			UM20	17-JAN-91	LT	1.40	UGL				C
		TSHW1*18	CCL4	T	0.00	CQC			UM20	17-JAN-91	LT	0.55	UGL				C
		TSHW1*18	CH2CL2	T	0.00	CQC			UM20	17-JAN-91	LT	2.20	UGL				C
		TSHW1*18	CH3BR	T	0.00	CQC			UM20	17-JAN-91	LT	5.70	UGL				C
		TSHW1*18	CH3CL	T	0.00	CQC			UM20	17-JAN-91	LT	3.40	UGL				C
		TSHW1*18	CHBR3	T	0.00	CQC			UM20	17-JAN-91	LT	2.50	UGL				C
		TSHW1*18	CHCL3	T	0.00	CQC			UM20	17-JAN-91	LT	0.51	UGL				C
		TSHW1*18	CL2BZ	T	0.00	CQC			UM20	17-JAN-91	ND	10.00	UGL	R			C
		TSHW1*18	CLC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*18	CS2	T	0.00	CQC			UM20	17-JAN-91	LT	0.57	UGL				C
		TSHW1*18	DBRCLM	T	0.00	CQC			UM20	17-JAN-91	LT	0.68	UGL				C
		TSHW1*18	ETC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*18	MEC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*18	MEK	T	0.00	CQC			UM20	17-JAN-91	LT	6.50	UGL				C
		TSHW1*18	MIBK	T	0.00	CQC			UM20	17-JAN-91	LT	3.30	UGL				C
		TSHW1*18	MNBK	T	0.00	CQC			UM20	17-JAN-91	LT	3.90	UGL				C
		TSHW1*18	STYR	T	0.00	CQC			UM20	17-JAN-91	LT	0.45	UGL				C
		TSHW1*18	T13DCP	T	0.00	CQC			UM20	17-JAN-91	LT	0.73	UGL				C
		TSHW1*18	TCLEA	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*18	TCLEE	T	0.00	CQC			UM20	17-JAN-91	LT	1.60	UGL				C
		TSHW1*18	TRCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*18	XYLEN	T	0.00	CQC			UM20	17-JAN-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYA	TSHW1*19	111TCE	T	0.00	CQC			UM20	21-JAN-91	LT	0.50	UGL				C
		TSHW1*19	112TCE	T	0.00	CQC			UM20	21-JAN-91	LT	1.30	UGL				C
		TSHW1*19	11DCE	T	0.00	CQC			UM20	21-JAN-91	LT	0.47	UGL				C
		TSHW1*19	11DCLE	T	0.00	CQC			UM20	21-JAN-91	LT	0.69	UGL				C
		TSHW1*19	12DCE	T	0.00	CQC			UM20	21-JAN-91	LT	0.49	UGL				C
		TSHW1*19	12DCLE	T	0.00	CQC			UM20	21-JAN-91	LT	0.50	UGL				C
		TSHW1*19	12DCLP	T	0.00	CQC			UM20	21-JAN-91	LT	0.49	UGL				C
		TSHW1*19	2CLEVE	T	0.00	CQC			UM20	21-JAN-91	LT	0.70	UGL				C
		TSHW1*19	ACET	T	0.00	CQC			UM20	21-JAN-91	LT	14.00	UGL				C
		TSHW1*19	ACROLN	T	0.00	CQC			UM20	21-JAN-91	ND	100.00	UGL	R			C
		TSHW1*19	ACRYLO	T	0.00	CQC			UM20	21-JAN-91	ND	100.00	UGL	R			C
		TSHW1*19	BRDCLM	T	0.00	CQC			UM20	21-JAN-91	LT	0.58	UGL				C
		TSHW1*19	C13DCP	T	0.00	CQC			UM20	21-JAN-91	LT	0.57	UGL				C
		TSHW1*19	C2AVE	T	0.00	CQC			UM20	21-JAN-91	LT	8.40	UGL				C
		TSHW1*19	C2H3CL	T	0.00	CQC			UM20	21-JAN-91	LT	2.70	UGL				C
		TSHW1*19	C2H5CL	T	0.00	CQC			UM20	21-JAN-91	LT	1.90	UGL				C
		TSHW1*19	C6H6	T	0.00	CQC			UM20	21-JAN-91	LT	0.50	UGL				C
		TSHW1*19	CCL3F	T	0.00	CQC			UM20	21-JAN-91	LT	1.40	UGL				C
		TSHW1*19	CCL4	T	0.00	CQC			UM20	21-JAN-91	LT	0.55	UGL				C
		TSHW1*19	CH2CL2	T	0.00	CQC			UM20	21-JAN-91	LT	2.20	UGL				C
		TSHW1*19	CH3BR	T	0.00	CQC			UM20	21-JAN-91	LT	5.70	UGL				C
		TSHW1*19	CH3CL	T	0.00	CQC			UM20	21-JAN-91	LT	3.40	UGL				C
		TSHW1*19	CHBR3	T	0.00	CQC			UM20	21-JAN-91	LT	2.50	UGL				C
		TSHW1*19	CHCL3	T	0.00	CQC			UM20	21-JAN-91	LT	0.51	UGL				C
		TSHW1*19	CL2BZ	T	0.00	CQC			UM20	21-JAN-91	ND	10.00	UGL	R			C
		TSHW1*19	CLC6H5	T	0.00	CQC			UM20	21-JAN-91	LT	0.48	UGL				C
		TSHW1*19	CS2	T	0.00	CQC			UM20	21-JAN-91	LT	0.57	UGL				C
		TSHW1*19	DBRCLM	T	0.00	CQC			UM20	21-JAN-91	LT	0.68	UGL				C
		TSHW1*19	ETC6H5	T	0.00	CQC			UM20	21-JAN-91	LT	0.48	UGL				C
		TSHW1*19	MEC6H5	T	0.00	CQC			UM20	21-JAN-91	LT	0.49	UGL				C
		TSHW1*19	MEK	T	0.00	CQC			UM20	21-JAN-91	LT	6.50	UGL				C
		TSHW1*19	MIBK	T	0.00	CQC			UM20	21-JAN-91	LT	3.30	UGL				C
		TSHW1*19	MNBK	T	0.00	CQC			UM20	21-JAN-91	LT	3.90	UGL				C
		TSHW1*19	STYR	T	0.00	CQC			UM20	21-JAN-91	LT	0.45	UGL				C
		TSHW1*19	T13DCP	T	0.00	CQC			UM20	21-JAN-91	LT	0.73	UGL				C
		TSHW1*19	TCLEA	T	0.00	CQC			UM20	21-JAN-91	LT	0.50	UGL				C
		TSHW1*19	TCLEE	T	0.00	CQC			UM20	21-JAN-91	LT	1.60	UGL				C
		TSHW1*19	TRCLE	T	0.00	CQC			UM20	21-JAN-91	LT	0.48	UGL				C
		TSHW1*19	XYLEN	T	0.00	CQC			UM20	21-JAN-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYC	TSHW1*20	111TCE	T	0.00	CQC			UM20	24-JAN-91	LT	0.50	UGL				C
		TSHW1*20	112TCE	T	0.00	CQC			UM20	24-JAN-91	LT	1.30	UGL				C
		TSHW1*20	11DCE	T	0.00	CQC			UM20	24-JAN-91	LT	0.47	UGL				C
		TSHW1*20	11DCLE	T	0.00	CQC			UM20	24-JAN-91	LT	0.69	UGL				C
		TSHW1*20	12DCE	T	0.00	CQC			UM20	24-JAN-91	LT	0.49	UGL				C
		TSHW1*20	12DCLE	T	0.00	CQC			UM20	24-JAN-91	LT	0.50	UGL				C
		TSHW1*20	12DCLP	T	0.00	CQC			UM20	24-JAN-91	LT	0.49	UGL				C
		TSHW1*20	2CLEVE	T	0.00	CQC			UM20	24-JAN-91	LT	0.70	UGL				C
		TSHW1*20	ACET	T	0.00	CQC			UM20	24-JAN-91	LT	14.00	UGL				C
		TSHW1*20	ACROLN	T	0.00	CQC			UM20	24-JAN-91	ND	100.00	UGL	R			C
		TSHW1*20	ACRYLO	T	0.00	CQC			UM20	24-JAN-91	ND	100.00	UGL	R			C
		TSHW1*20	BRDCLM	T	0.00	CQC			UM20	24-JAN-91	LT	0.58	UGL				C
		TSHW1*20	C13DCP	T	0.00	CQC			UM20	24-JAN-91	LT	0.57	UGL				C
		TSHW1*20	C2AVE	T	0.00	CQC			UM20	24-JAN-91	LT	8.40	UGL				C
		TSHW1*20	C2H3CL	T	0.00	CQC			UM20	24-JAN-91	LT	2.70	UGL				C
		TSHW1*20	C2H5CL	T	0.00	CQC			UM20	24-JAN-91	LT	1.90	UGL				C
		TSHW1*20	C6H6	T	0.00	CQC			UM20	24-JAN-91	LT	0.50	UGL				C
		TSHW1*20	CCL3F	T	0.00	CQC			UM20	24-JAN-91	LT	1.40	UGL				C
		TSHW1*20	CCL4	T	0.00	CQC			UM20	24-JAN-91	LT	0.55	UGL				C
		TSHW1*20	CH2CL2	T	0.00	CQC			UM20	24-JAN-91	LT	2.20	UGL				C
		TSHW1*20	CH3BR	T	0.00	CQC			UM20	24-JAN-91	LT	5.70	UGL				C
		TSHW1*20	CH3CL	T	0.00	CQC			UM20	24-JAN-91	LT	3.40	UGL				C
		TSHW1*20	CHBR3	T	0.00	CQC			UM20	24-JAN-91	LT	2.50	UGL				C
		TSHW1*20	CHCL3	T	0.00	CQC			UM20	24-JAN-91	LT	0.51	UGL				C
		TSHW1*20	CL2BZ	T	0.00	CQC			UM20	24-JAN-91	ND	10.00	UGL	R			C
		TSHW1*20	CLC6H5	T	0.00	CQC			UM20	24-JAN-91	LT	0.48	UGL				C
		TSHW1*20	CS2	T	0.00	CQC			UM20	24-JAN-91	LT	0.57	UGL				C
		TSHW1*20	DBRCLM	T	0.00	CQC			UM20	24-JAN-91	LT	0.68	UGL				C
		TSHW1*20	ETC6H5	T	0.00	CQC			UM20	24-JAN-91	LT	0.48	UGL				C
		TSHW1*20	MEC6H5	T	0.00	CQC			UM20	24-JAN-91	LT	0.49	UGL				C
		TSHW1*20	MEK	T	0.00	CQC			UM20	24-JAN-91	LT	6.50	UGL				C
		TSHW1*20	MIBK	T	0.00	CQC			UM20	24-JAN-91	LT	3.30	UGL				C
		TSHW1*20	MNBK	T	0.00	CQC			UM20	24-JAN-91	LT	3.90	UGL				C
		TSHW1*20	STYR	T	0.00	CQC			UM20	24-JAN-91	LT	0.45	UGL				C
		TSHW1*20	T13DCP	T	0.00	CQC			UM20	24-JAN-91	LT	0.73	UGL				C
		TSHW1*20	TCLEA	T	0.00	CQC			UM20	24-JAN-91	LT	0.50	UGL				C
		TSHW1*20	TCLEE	T	0.00	CQC			UM20	24-JAN-91	LT	1.60	UGL				C
		TSHW1*20	TRCLE	T	0.00	CQC			UM20	24-JAN-91	LT	0.48	UGL				C
		TSHW1*20	XYLEN	T	0.00	CQC			UM20	24-JAN-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYI	SHSTB*19	111TCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*19	112TCE	T	0.00	CQC			UM20	01-FEB-91	LT	1.30	UGL				C
		SHSTB*19	11DCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.47	UGL				C
		SHSTB*19	11DCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.69	UGL				C
		SHSTB*19	12DCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*19	12DCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*19	12DCLP	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*19	2CLEVE	T	0.00	CQC			UM20	01-FEB-91	LT	0.70	UGL				C
		SHSTB*19	ACET	T	0.00	CQC			UM20	01-FEB-91	LT	14.00	UGL				C
		SHSTB*19	ACROLN	T	0.00	CQC			UM20	01-FEB-91	ND	100.00	UGL	R			C
		SHSTB*19	ACRYLO	T	0.00	CQC			UM20	01-FEB-91	ND	100.00	UGL	R			C
		SHSTB*19	BRDCLM	T	0.00	CQC			UM20	01-FEB-91	LT	0.58	UGL				C
		SHSTB*19	C13DCP	T	0.00	CQC			UM20	01-FEB-91	LT	0.57	UGL				C
		SHSTB*19	C2AVE	T	0.00	CQC			UM20	01-FEB-91	LT	8.40	UGL				C
		SHSTB*19	C2H3CL	T	0.00	CQC			UM20	01-FEB-91	LT	2.70	UGL				C
		SHSTB*19	C2H5CL	T	0.00	CQC			UM20	01-FEB-91	LT	1.90	UGL				C
		SHSTB*19	C6H6	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*19	CCL3F	T	0.00	CQC			UM20	01-FEB-91	LT	1.40	UGL				C
		SHSTB*19	CCL4	T	0.00	CQC			UM20	01-FEB-91	LT	0.55	UGL				C
		SHSTB*19	CH2CL2	T	0.00	CQC			UM20	01-FEB-91	LT	2.20	UGL				C
		SHSTB*19	CH3BR	T	0.00	CQC			UM20	01-FEB-91	LT	5.70	UGL				C
		SHSTB*19	CH3CL	T	0.00	CQC			UM20	01-FEB-91	LT	3.40	UGL				C
		SHSTB*19	CHBR3	T	0.00	CQC			UM20	01-FEB-91	LT	2.50	UGL				C
		SHSTB*19	CHCL3	T	0.00	CQC			UM20	01-FEB-91	LT	0.51	UGL				C
		SHSTB*19	CL2BZ	T	0.00	CQC			UM20	01-FEB-91	ND	10.00	UGL	R			C
		SHSTB*19	CLC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*19	CS2	T	0.00	CQC			UM20	01-FEB-91	LT	0.57	UGL				C
		SHSTB*19	DBRCLM	T	0.00	CQC			UM20	01-FEB-91	LT	0.68	UGL				C
		SHSTB*19	ETC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*19	MEC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*19	MEK	T	0.00	CQC			UM20	01-FEB-91	LT	6.50	UGL				C
		SHSTB*19	MIBK	T	0.00	CQC			UM20	01-FEB-91	LT	3.30	UGL				C
		SHSTB*19	MNBK	T	0.00	CQC			UM20	01-FEB-91	LT	3.90	UGL				C
		SHSTB*19	STYR	T	0.00	CQC			UM20	01-FEB-91	LT	0.45	UGL				C
		SHSTB*19	T13DCP	T	0.00	CQC			UM20	01-FEB-91	LT	0.73	UGL				C
		SHSTB*19	TCLEA	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*19	TCLEE	T	0.00	CQC			UM20	01-FEB-91	LT	1.60	UGL				C
		SHSTB*19	TRCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*19	XYLEN	T	0.00	CQC			UM20	01-FEB-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYI	SHSTB*11	111TCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*11	112TCE	T	0.00	CQC			UM20	01-FEB-91	LT	1.30	UGL				C
		SHSTB*11	11DCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.47	UGL				C
		SHSTB*11	11DCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.69	UGL				C
		SHSTB*11	12DCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*11	12DCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*11	12DCLP	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*11	2CLEVE	T	0.00	CQC			UM20	01-FEB-91	LT	0.70	UGL				C
		SHSTB*11	ACET	T	0.00	CQC			UM20	01-FEB-91	LT	14.00	UGL				C
		SHSTB*11	ACROLN	T	0.00	CQC			UM20	01-FEB-91	ND	100.00	UGL	R			C
		SHSTB*11	ACRYLO	T	0.00	CQC			UM20	01-FEB-91	ND	100.00	UGL	R			C
		SHSTB*11	BRDCLM	T	0.00	CQC			UM20	01-FEB-91	LT	0.58	UGL				C
		SHSTB*11	C13DCP	T	0.00	CQC			UM20	01-FEB-91	LT	0.57	UGL				C
		SHSTB*11	C2AVE	T	0.00	CQC			UM20	01-FEB-91	LT	8.40	UGL				C
		SHSTB*11	C2H3CL	T	0.00	CQC			UM20	01-FEB-91	LT	2.70	UGL				C
		SHSTB*11	C2H5CL	T	0.00	CQC			UM20	01-FEB-91	LT	1.90	UGL				C
		SHSTB*11	C6H6	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*11	CCL3F	T	0.00	CQC			UM20	01-FEB-91	LT	1.40	UGL				C
		SHSTB*11	CCL4	T	0.00	CQC			UM20	01-FEB-91	LT	0.55	UGL				C
		SHSTB*11	CH2CL2	T	0.00	CQC			UM20	01-FEB-91	LT	2.20	UGL				C
		SHSTB*11	CH3BR	T	0.00	CQC			UM20	01-FEB-91	LT	5.70	UGL				C
		SHSTB*11	CH3CL	T	0.00	CQC			UM20	01-FEB-91	LT	3.40	UGL				C
		SHSTB*11	CHBR3	T	0.00	CQC			UM20	01-FEB-91	LT	2.50	UGL				C
		SHSTB*11	CHCL3	T	0.00	CQC			UM20	01-FEB-91	LT	0.51	UGL				C
		SHSTB*11	CL2BZ	T	0.00	CQC			UM20	01-FEB-91	ND	10.00	UGL	R			C
		SHSTB*11	CLC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*11	CS2	T	0.00	CQC			UM20	01-FEB-91	LT	0.57	UGL				C
		SHSTB*11	DBRCLM	T	0.00	CQC			UM20	01-FEB-91	LT	0.68	UGL				C
		SHSTB*11	ETC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*11	MEC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*11	MEK	T	0.00	CQC			UM20	01-FEB-91	LT	6.50	UGL				C
		SHSTB*11	MIBK	T	0.00	CQC			UM20	01-FEB-91	LT	3.30	UGL				C
		SHSTB*11	MNBK	T	0.00	CQC			UM20	01-FEB-91	LT	3.90	UGL				C
		SHSTB*11	STYR	T	0.00	CQC			UM20	01-FEB-91	LT	0.45	UGL				C
		SHSTB*11	T13DCP	T	0.00	CQC			UM20	01-FEB-91	LT	0.73	UGL				C
		SHSTB*11	TCLEA	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*11	TCLEE	T	0.00	CQC			UM20	01-FEB-91	LT	1.60	UGL				C
		SHSTB*11	TRCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*11	XYLEN	T	0.00	CQC			UM20	01-FEB-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*36	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*36	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*36	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*36	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*36	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*36	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*36	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*36	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*36	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*36	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*36	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*36	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*36	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*36	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*36	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*36	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*36	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*36	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*36	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*36	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*36	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*36	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*36	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*36	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*36	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*36	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*36	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*36	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*36	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*36	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*36	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*36	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*36	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*36	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*36	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*36	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*36	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*36	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*36	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*37	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*37	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*37	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*37	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*37	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*37	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*37	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*37	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*37	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*37	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*37	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*37	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*37	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*37	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*37	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*37	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*37	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*37	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*37	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*37	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*37	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*37	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*37	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*37	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*37	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*37	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*37	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*37	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*37	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*37	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*37	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*37	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*37	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*37	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*37	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*37	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*37	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*37	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*37	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

19-SEP-97 13:10:21

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UBZ	TSHW1*22	111TCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*22	112TCE	T	0.00	CQC			UM20	17-JAN-91	LT	1.30	UGL				C
		TSHW1*22	11DCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.47	UGL				C
		TSHW1*22	11DCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.69	UGL				C
		TSHW1*22	12DCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*22	12DCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*22	12DCLP	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*22	2CLEVE	T	0.00	CQC			UM20	17-JAN-91	LT	0.70	UGL				C
		TSHW1*22	ACET	T	0.00	CQC			UM20	17-JAN-91	LT	14.00	UGL				C
		TSHW1*22	ACROLN	T	0.00	CQC			UM20	17-JAN-91	ND	100.00	UGL	R			C
		TSHW1*22	ACRYLO	T	0.00	CQC			UM20	17-JAN-91	ND	100.00	UGL	R			C
		TSHW1*22	BRDCLM	T	0.00	CQC			UM20	17-JAN-91	LT	0.58	UGL				C
		TSHW1*22	C13DCP	T	0.00	CQC			UM20	17-JAN-91	LT	0.57	UGL				C
		TSHW1*22	C2AVE	T	0.00	CQC			UM20	17-JAN-91	LT	8.40	UGL				C
		TSHW1*22	C2H3CL	T	0.00	CQC			UM20	17-JAN-91	LT	2.70	UGL				C
		TSHW1*22	C2H5CL	T	0.00	CQC			UM20	17-JAN-91	LT	1.90	UGL				C
		TSHW1*22	C6H6	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*22	CCL3F	T	0.00	CQC			UM20	17-JAN-91	LT	1.40	UGL				C
		TSHW1*22	CCL4	T	0.00	CQC			UM20	17-JAN-91	LT	0.55	UGL				C
		TSHW1*22	CH2CL2	T	0.00	CQC			UM20	17-JAN-91	LT	2.20	UGL				C
		TSHW1*22	CH3BR	T	0.00	CQC			UM20	17-JAN-91	LT	5.70	UGL				C
		TSHW1*22	CH3CL	T	0.00	CQC			UM20	17-JAN-91	LT	3.40	UGL				C
		TSHW1*22	CHBR3	T	0.00	CQC			UM20	17-JAN-91	LT	2.50	UGL				C
		TSHW1*22	CHCL3	T	0.00	CQC			UM20	17-JAN-91	LT	0.51	UGL				C
		TSHW1*22	CL2BZ	T	0.00	CQC			UM20	17-JAN-91	ND	10.00	UGL	R			C
		TSHW1*22	CLC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*22	CS2	T	0.00	CQC			UM20	17-JAN-91	LT	0.57	UGL				C
		TSHW1*22	DBRCLM	T	0.00	CQC			UM20	17-JAN-91	LT	0.68	UGL				C
		TSHW1*22	ETC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*22	MEC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*22	MEK	T	0.00	CQC			UM20	17-JAN-91	LT	6.50	UGL				C
		TSHW1*22	MIBK	T	0.00	CQC			UM20	17-JAN-91	LT	3.30	UGL				C
		TSHW1*22	MNBK	T	0.00	CQC			UM20	17-JAN-91	LT	3.90	UGL				C
		TSHW1*22	STYR	T	0.00	CQC			UM20	17-JAN-91	LT	0.45	UGL				C
		TSHW1*22	T13DCP	T	0.00	CQC			UM20	17-JAN-91	LT	0.73	UGL				C
		TSHW1*22	TCLEA	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*22	TCLEE	T	0.00	CQC			UM20	17-JAN-91	LT	1.60	UGL				C
		TSHW1*22	TRCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*22	XYLEN	T	0.00	CQC			UM20	17-JAN-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UBZ	TSHW1*18	111TCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*18	112TCE	T	0.00	CQC			UM20	17-JAN-91	LT	1.30	UGL				C
		TSHW1*18	11DCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.47	UGL				C
		TSHW1*18	11DCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.69	UGL				C
		TSHW1*18	12DCE	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*18	12DCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*18	12DCLP	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*18	2CLEVE	T	0.00	CQC			UM20	17-JAN-91	LT	0.70	UGL				C
		TSHW1*18	ACET	T	0.00	CQC			UM20	17-JAN-91	LT	14.00	UGL				C
		TSHW1*18	ACROLN	T	0.00	CQC			UM20	17-JAN-91	ND	100.00	UGL	R			C
		TSHW1*18	ACRYLO	T	0.00	CQC			UM20	17-JAN-91	ND	100.00	UGL	R			C
		TSHW1*18	BRDCLM	T	0.00	CQC			UM20	17-JAN-91	LT	0.58	UGL				C
		TSHW1*18	C13DCP	T	0.00	CQC			UM20	17-JAN-91	LT	0.57	UGL				C
		TSHW1*18	C2AVE	T	0.00	CQC			UM20	17-JAN-91	LT	8.40	UGL				C
		TSHW1*18	C2H3CL	T	0.00	CQC			UM20	17-JAN-91	LT	2.70	UGL				C
		TSHW1*18	C2H5CL	T	0.00	CQC			UM20	17-JAN-91	LT	1.90	UGL				C
		TSHW1*18	C6H6	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*18	CCL3F	T	0.00	CQC			UM20	17-JAN-91	LT	1.40	UGL				C
		TSHW1*18	CCL4	T	0.00	CQC			UM20	17-JAN-91	LT	0.55	UGL				C
		TSHW1*18	CH2CL2	T	0.00	CQC			UM20	17-JAN-91	LT	2.20	UGL				C
		TSHW1*18	CH3BR	T	0.00	CQC			UM20	17-JAN-91	LT	5.70	UGL				C
		TSHW1*18	CH3CL	T	0.00	CQC			UM20	17-JAN-91	LT	3.40	UGL				C
		TSHW1*18	CHBR3	T	0.00	CQC			UM20	17-JAN-91	LT	2.50	UGL				C
		TSHW1*18	CHCL3	T	0.00	CQC			UM20	17-JAN-91	LT	0.51	UGL				C
		TSHW1*18	CL2BZ	T	0.00	CQC			UM20	17-JAN-91	ND	10.00	UGL	R			C
		TSHW1*18	CLC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*18	CS2	T	0.00	CQC			UM20	17-JAN-91	LT	0.57	UGL				C
		TSHW1*18	DBRCLM	T	0.00	CQC			UM20	17-JAN-91	LT	0.68	UGL				C
		TSHW1*18	ETC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*18	MEC6H5	T	0.00	CQC			UM20	17-JAN-91	LT	0.49	UGL				C
		TSHW1*18	MEK	T	0.00	CQC			UM20	17-JAN-91	LT	6.50	UGL				C
		TSHW1*18	MIBK	T	0.00	CQC			UM20	17-JAN-91	LT	3.30	UGL				C
		TSHW1*18	MNBK	T	0.00	CQC			UM20	17-JAN-91	LT	3.90	UGL				C
		TSHW1*18	STYR	T	0.00	CQC			UM20	17-JAN-91	LT	0.45	UGL				C
		TSHW1*18	T13DCP	T	0.00	CQC			UM20	17-JAN-91	LT	0.73	UGL				C
		TSHW1*18	TCLEA	T	0.00	CQC			UM20	17-JAN-91	LT	0.50	UGL				C
		TSHW1*18	TCLEE	T	0.00	CQC			UM20	17-JAN-91	LT	1.60	UGL				C
		TSHW1*18	TRCLE	T	0.00	CQC			UM20	17-JAN-91	LT	0.48	UGL				C
		TSHW1*18	XYLEN	T	0.00	CQC			UM20	17-JAN-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYA	TSHW1*19	111TCE	T	0.00	CQC			UM20	21-JAN-91	LT	0.50	UGL				C
		TSHW1*19	112TCE	T	0.00	CQC			UM20	21-JAN-91	LT	1.30	UGL				C
		TSHW1*19	11DCE	T	0.00	CQC			UM20	21-JAN-91	LT	0.47	UGL				C
		TSHW1*19	11DCLE	T	0.00	CQC			UM20	21-JAN-91	LT	0.69	UGL				C
		TSHW1*19	12DCE	T	0.00	CQC			UM20	21-JAN-91	LT	0.49	UGL				C
		TSHW1*19	12DCLE	T	0.00	CQC			UM20	21-JAN-91	LT	0.50	UGL				C
		TSHW1*19	12DCLP	T	0.00	CQC			UM20	21-JAN-91	LT	0.49	UGL				C
		TSHW1*19	2CLEVE	T	0.00	CQC			UM20	21-JAN-91	LT	0.70	UGL				C
		TSHW1*19	ACET	T	0.00	CQC			UM20	21-JAN-91	LT	14.00	UGL				C
		TSHW1*19	ACROLN	T	0.00	CQC			UM20	21-JAN-91	ND	100.00	UGL	R			C
		TSHW1*19	ACRYLO	T	0.00	CQC			UM20	21-JAN-91	ND	100.00	UGL	R			C
		TSHW1*19	BRDCLM	T	0.00	CQC			UM20	21-JAN-91	LT	0.58	UGL				C
		TSHW1*19	C13DCP	T	0.00	CQC			UM20	21-JAN-91	LT	0.57	UGL				C
		TSHW1*19	C2AVE	T	0.00	CQC			UM20	21-JAN-91	LT	8.40	UGL				C
		TSHW1*19	C2H3CL	T	0.00	CQC			UM20	21-JAN-91	LT	2.70	UGL				C
		TSHW1*19	C2H5CL	T	0.00	CQC			UM20	21-JAN-91	LT	1.90	UGL				C
		TSHW1*19	C6H6	T	0.00	CQC			UM20	21-JAN-91	LT	0.50	UGL				C
		TSHW1*19	CCL3F	T	0.00	CQC			UM20	21-JAN-91	LT	1.40	UGL				C
		TSHW1*19	CCL4	T	0.00	CQC			UM20	21-JAN-91	LT	0.55	UGL				C
		TSHW1*19	CH2CL2	T	0.00	CQC			UM20	21-JAN-91	LT	2.20	UGL				C
		TSHW1*19	CH3BR	T	0.00	CQC			UM20	21-JAN-91	LT	5.70	UGL				C
		TSHW1*19	CH3CL	T	0.00	CQC			UM20	21-JAN-91	LT	3.40	UGL				C
		TSHW1*19	CHBR3	T	0.00	CQC			UM20	21-JAN-91	LT	2.50	UGL				C
		TSHW1*19	CHCL3	T	0.00	CQC			UM20	21-JAN-91	LT	0.51	UGL				C
		TSHW1*19	CL2BZ	T	0.00	CQC			UM20	21-JAN-91	ND	10.00	UGL	R			C
		TSHW1*19	CLC6H5	T	0.00	CQC			UM20	21-JAN-91	LT	0.48	UGL				C
		TSHW1*19	CS2	T	0.00	CQC			UM20	21-JAN-91	LT	0.57	UGL				C
		TSHW1*19	DBRCLM	T	0.00	CQC			UM20	21-JAN-91	LT	0.68	UGL				C
		TSHW1*19	ETC6H5	T	0.00	CQC			UM20	21-JAN-91	LT	0.48	UGL				C
		TSHW1*19	MEC6H5	T	0.00	CQC			UM20	21-JAN-91	LT	0.49	UGL				C
		TSHW1*19	MEK	T	0.00	CQC			UM20	21-JAN-91	LT	6.50	UGL				C
		TSHW1*19	MIBK	T	0.00	CQC			UM20	21-JAN-91	LT	3.30	UGL				C
		TSHW1*19	MNBK	T	0.00	CQC			UM20	21-JAN-91	LT	3.90	UGL				C
		TSHW1*19	STYR	T	0.00	CQC			UM20	21-JAN-91	LT	0.45	UGL				C
		TSHW1*19	T13DCP	T	0.00	CQC			UM20	21-JAN-91	LT	0.73	UGL				C
		TSHW1*19	TCLEA	T	0.00	CQC			UM20	21-JAN-91	LT	0.50	UGL				C
		TSHW1*19	TCLEE	T	0.00	CQC			UM20	21-JAN-91	LT	1.60	UGL				C
		TSHW1*19	TRCLE	T	0.00	CQC			UM20	21-JAN-91	LT	0.48	UGL				C
		TSHW1*19	XYLEN	T	0.00	CQC			UM20	21-JAN-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYC	TSHW1*20	111TCE	T	0.00	CQC			UM20	24-JAN-91	LT	0.50	UGL				C
		TSHW1*20	112TCE	T	0.00	CQC			UM20	24-JAN-91	LT	1.30	UGL				C
		TSHW1*20	11DCE	T	0.00	CQC			UM20	24-JAN-91	LT	0.47	UGL				C
		TSHW1*20	11DCLE	T	0.00	CQC			UM20	24-JAN-91	LT	0.69	UGL				C
		TSHW1*20	12DCE	T	0.00	CQC			UM20	24-JAN-91	LT	0.49	UGL				C
		TSHW1*20	12DCLE	T	0.00	CQC			UM20	24-JAN-91	LT	0.50	UGL				C
		TSHW1*20	12DCLP	T	0.00	CQC			UM20	24-JAN-91	LT	0.49	UGL				C
		TSHW1*20	2CLEVE	T	0.00	CQC			UM20	24-JAN-91	LT	0.70	UGL				C
		TSHW1*20	ACET	T	0.00	CQC			UM20	24-JAN-91	LT	14.00	UGL				C
		TSHW1*20	ACROLN	T	0.00	CQC			UM20	24-JAN-91	ND	100.00	UGL	R			C
		TSHW1*20	ACRYLO	T	0.00	CQC			UM20	24-JAN-91	ND	100.00	UGL	R			C
		TSHW1*20	BRDCLM	T	0.00	CQC			UM20	24-JAN-91	LT	0.58	UGL				C
		TSHW1*20	C13DCP	T	0.00	CQC			UM20	24-JAN-91	LT	0.57	UGL				C
		TSHW1*20	C2AVE	T	0.00	CQC			UM20	24-JAN-91	LT	8.40	UGL				C
		TSHW1*20	C2H3CL	T	0.00	CQC			UM20	24-JAN-91	LT	2.70	UGL				C
		TSHW1*20	C2H5CL	T	0.00	CQC			UM20	24-JAN-91	LT	1.90	UGL				C
		TSHW1*20	C6H6	T	0.00	CQC			UM20	24-JAN-91	LT	0.50	UGL				C
		TSHW1*20	CCL3F	T	0.00	CQC			UM20	24-JAN-91	LT	1.40	UGL				C
		TSHW1*20	CCL4	T	0.00	CQC			UM20	24-JAN-91	LT	0.55	UGL				C
		TSHW1*20	CH2CL2	T	0.00	CQC			UM20	24-JAN-91	LT	2.20	UGL				C
		TSHW1*20	CH3BR	T	0.00	CQC			UM20	24-JAN-91	LT	5.70	UGL				C
		TSHW1*20	CH3CL	T	0.00	CQC			UM20	24-JAN-91	LT	3.40	UGL				C
		TSHW1*20	CHBR3	T	0.00	CQC			UM20	24-JAN-91	LT	2.50	UGL				C
		TSHW1*20	CHCL3	T	0.00	CQC			UM20	24-JAN-91	LT	0.51	UGL				C
		TSHW1*20	CL2BZ	T	0.00	CQC			UM20	24-JAN-91	ND	10.00	UGL	R			C
		TSHW1*20	CLC6H5	T	0.00	CQC			UM20	24-JAN-91	LT	0.48	UGL				C
		TSHW1*20	CS2	T	0.00	CQC			UM20	24-JAN-91	LT	0.57	UGL				C
		TSHW1*20	DBRCLM	T	0.00	CQC			UM20	24-JAN-91	LT	0.68	UGL				C
		TSHW1*20	ETC6H5	T	0.00	CQC			UM20	24-JAN-91	LT	0.48	UGL				C
		TSHW1*20	MEC6H5	T	0.00	CQC			UM20	24-JAN-91	LT	0.49	UGL				C
		TSHW1*20	MEK	T	0.00	CQC			UM20	24-JAN-91	LT	6.50	UGL				C
		TSHW1*20	MIBK	T	0.00	CQC			UM20	24-JAN-91	LT	3.30	UGL				C
		TSHW1*20	MNBK	T	0.00	CQC			UM20	24-JAN-91	LT	3.90	UGL				C
		TSHW1*20	STYR	T	0.00	CQC			UM20	24-JAN-91	LT	0.45	UGL				C
		TSHW1*20	T13DCP	T	0.00	CQC			UM20	24-JAN-91	LT	0.73	UGL				C
		TSHW1*20	TCLEA	T	0.00	CQC			UM20	24-JAN-91	LT	0.50	UGL				C
		TSHW1*20	TCLEE	T	0.00	CQC			UM20	24-JAN-91	LT	1.60	UGL				C
		TSHW1*20	TRCLE	T	0.00	CQC			UM20	24-JAN-91	LT	0.48	UGL				C
		TSHW1*20	XYLEN	T	0.00	CQC			UM20	24-JAN-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYI	SHSTB*19	111TCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*19	112TCE	T	0.00	CQC			UM20	01-FEB-91	LT	1.30	UGL				C
		SHSTB*19	11DCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.47	UGL				C
		SHSTB*19	11DCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.69	UGL				C
		SHSTB*19	12DCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*19	12DCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*19	12DCLP	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*19	2CLEVE	T	0.00	CQC			UM20	01-FEB-91	LT	0.70	UGL				C
		SHSTB*19	ACET	T	0.00	CQC			UM20	01-FEB-91	LT	14.00	UGL				C
		SHSTB*19	ACROLN	T	0.00	CQC			UM20	01-FEB-91	ND	100.00	UGL	R			C
		SHSTB*19	ACRYLO	T	0.00	CQC			UM20	01-FEB-91	ND	100.00	UGL	R			C
		SHSTB*19	BRDCLM	T	0.00	CQC			UM20	01-FEB-91	LT	0.58	UGL				C
		SHSTB*19	C13DCP	T	0.00	CQC			UM20	01-FEB-91	LT	0.57	UGL				C
		SHSTB*19	C2AVE	T	0.00	CQC			UM20	01-FEB-91	LT	8.40	UGL				C
		SHSTB*19	C2H3CL	T	0.00	CQC			UM20	01-FEB-91	LT	2.70	UGL				C
		SHSTB*19	C2H5CL	T	0.00	CQC			UM20	01-FEB-91	LT	1.90	UGL				C
		SHSTB*19	C6H6	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*19	CCL3F	T	0.00	CQC			UM20	01-FEB-91	LT	1.40	UGL				C
		SHSTB*19	CCL4	T	0.00	CQC			UM20	01-FEB-91	LT	0.55	UGL				C
		SHSTB*19	CH2CL2	T	0.00	CQC			UM20	01-FEB-91	LT	2.20	UGL				C
		SHSTB*19	CH3BR	T	0.00	CQC			UM20	01-FEB-91	LT	5.70	UGL				C
		SHSTB*19	CH3CL	T	0.00	CQC			UM20	01-FEB-91	LT	3.40	UGL				C
		SHSTB*19	CHBR3	T	0.00	CQC			UM20	01-FEB-91	LT	2.50	UGL				C
		SHSTB*19	CHCL3	T	0.00	CQC			UM20	01-FEB-91	LT	0.51	UGL				C
		SHSTB*19	CL2BZ	T	0.00	CQC			UM20	01-FEB-91	ND	10.00	UGL	R			C
		SHSTB*19	CLC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*19	CS2	T	0.00	CQC			UM20	01-FEB-91	LT	0.57	UGL				C
		SHSTB*19	DBRCLM	T	0.00	CQC			UM20	01-FEB-91	LT	0.68	UGL				C
		SHSTB*19	ETC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*19	MEC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*19	MEK	T	0.00	CQC			UM20	01-FEB-91	LT	6.50	UGL				C
		SHSTB*19	MIBK	T	0.00	CQC			UM20	01-FEB-91	LT	3.30	UGL				C
		SHSTB*19	MNBK	T	0.00	CQC			UM20	01-FEB-91	LT	3.90	UGL				C
		SHSTB*19	STYR	T	0.00	CQC			UM20	01-FEB-91	LT	0.45	UGL				C
		SHSTB*19	T13DCP	T	0.00	CQC			UM20	01-FEB-91	LT	0.73	UGL				C
		SHSTB*19	TCLEA	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*19	TCLEE	T	0.00	CQC			UM20	01-FEB-91	LT	1.60	UGL				C
		SHSTB*19	TRCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*19	XYLEN	T	0.00	CQC			UM20	01-FEB-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYI	SHSTB*11	111TCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*11	112TCE	T	0.00	CQC			UM20	01-FEB-91	LT	1.30	UGL				C
		SHSTB*11	11DCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.47	UGL				C
		SHSTB*11	11DCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.69	UGL				C
		SHSTB*11	12DCE	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*11	12DCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*11	12DCLP	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*11	2CLEVE	T	0.00	CQC			UM20	01-FEB-91	LT	0.70	UGL				C
		SHSTB*11	ACET	T	0.00	CQC			UM20	01-FEB-91	LT	14.00	UGL				C
		SHSTB*11	ACROLN	T	0.00	CQC			UM20	01-FEB-91	ND	100.00	UGL	R			C
		SHSTB*11	ACRYLO	T	0.00	CQC			UM20	01-FEB-91	ND	100.00	UGL	R			C
		SHSTB*11	BRDCLM	T	0.00	CQC			UM20	01-FEB-91	LT	0.58	UGL				C
		SHSTB*11	C13DCP	T	0.00	CQC			UM20	01-FEB-91	LT	0.57	UGL				C
		SHSTB*11	C2AVE	T	0.00	CQC			UM20	01-FEB-91	LT	8.40	UGL				C
		SHSTB*11	C2H3CL	T	0.00	CQC			UM20	01-FEB-91	LT	2.70	UGL				C
		SHSTB*11	C2H5CL	T	0.00	CQC			UM20	01-FEB-91	LT	1.90	UGL				C
		SHSTB*11	C6H6	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*11	CCL3F	T	0.00	CQC			UM20	01-FEB-91	LT	1.40	UGL				C
		SHSTB*11	CCL4	T	0.00	CQC			UM20	01-FEB-91	LT	0.55	UGL				C
		SHSTB*11	CH2CL2	T	0.00	CQC			UM20	01-FEB-91	LT	2.20	UGL				C
		SHSTB*11	CH3BR	T	0.00	CQC			UM20	01-FEB-91	LT	5.70	UGL				C
		SHSTB*11	CH3CL	T	0.00	CQC			UM20	01-FEB-91	LT	3.40	UGL				C
		SHSTB*11	CHBR3	T	0.00	CQC			UM20	01-FEB-91	LT	2.50	UGL				C
		SHSTB*11	CHCL3	T	0.00	CQC			UM20	01-FEB-91	LT	0.51	UGL				C
		SHSTB*11	CL2BZ	T	0.00	CQC			UM20	01-FEB-91	ND	10.00	UGL	R			C
		SHSTB*11	CLC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*11	CS2	T	0.00	CQC			UM20	01-FEB-91	LT	0.57	UGL				C
		SHSTB*11	DBRCLM	T	0.00	CQC			UM20	01-FEB-91	LT	0.68	UGL				C
		SHSTB*11	ETC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*11	MEC6H5	T	0.00	CQC			UM20	01-FEB-91	LT	0.49	UGL				C
		SHSTB*11	MEK	T	0.00	CQC			UM20	01-FEB-91	LT	6.50	UGL				C
		SHSTB*11	MIBK	T	0.00	CQC			UM20	01-FEB-91	LT	3.30	UGL				C
		SHSTB*11	MNBK	T	0.00	CQC			UM20	01-FEB-91	LT	3.90	UGL				C
		SHSTB*11	STYR	T	0.00	CQC			UM20	01-FEB-91	LT	0.45	UGL				C
		SHSTB*11	T13DCP	T	0.00	CQC			UM20	01-FEB-91	LT	0.73	UGL				C
		SHSTB*11	TCLEA	T	0.00	CQC			UM20	01-FEB-91	LT	0.50	UGL				C
		SHSTB*11	TCLEE	T	0.00	CQC			UM20	01-FEB-91	LT	1.60	UGL				C
		SHSTB*11	TRCLE	T	0.00	CQC			UM20	01-FEB-91	LT	0.48	UGL				C
		SHSTB*11	XYLEN	T	0.00	CQC			UM20	01-FEB-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*36	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*36	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*36	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*36	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*36	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*36	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*36	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*36	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*36	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*36	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*36	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*36	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*36	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*36	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*36	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*36	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*36	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*36	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*36	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*36	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*36	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*36	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*36	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*36	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*36	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*36	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*36	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*36	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*36	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*36	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*36	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*36	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*36	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*36	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*36	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*36	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*36	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*36	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*36	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*37	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*37	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*37	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*37	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*37	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*37	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*37	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*37	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*37	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*37	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*37	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*37	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*37	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*37	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*37	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*37	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*37	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*37	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*37	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*37	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*37	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*37	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*37	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*37	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*37	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*37	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*37	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*37	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*37	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*37	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*37	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*37	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*37	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*37	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*37	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*37	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*37	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*37	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*37	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*38	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*38	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*38	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*38	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*38	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*38	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*38	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*38	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*38	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*38	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*38	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*38	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*38	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*38	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*38	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*38	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*38	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*38	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*38	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*38	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*38	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*38	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*38	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*38	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*38	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*38	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*38	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*38	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*38	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*38	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*38	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*38	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*38	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*38	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*38	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*38	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*38	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*38	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*38	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	UYX	SHSTB*39	111TCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	112TCE	T	0.00	CQC			UM20	13-MAR-91	LT	1.30	UGL				C
		SHSTB*39	11DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.47	UGL				C
		SHSTB*39	11DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.69	UGL				C
		SHSTB*39	12DCE	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	12DCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	12DCLP	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	2CLEVE	T	0.00	CQC			UM20	13-MAR-91	LT	0.70	UGL				C
		SHSTB*39	ACET	T	0.00	CQC			UM20	13-MAR-91	LT	14.00	UGL				C
		SHSTB*39	ACROLN	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*39	ACRYLO	T	0.00	CQC			UM20	13-MAR-91	ND	100.00	UGL	R			C
		SHSTB*39	BRDCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.58	UGL				C
		SHSTB*39	C13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*39	C2AVE	T	0.00	CQC			UM20	13-MAR-91	LT	8.40	UGL				C
		SHSTB*39	C2H3CL	T	0.00	CQC			UM20	13-MAR-91	LT	2.70	UGL				C
		SHSTB*39	C2H5CL	T	0.00	CQC			UM20	13-MAR-91	LT	1.90	UGL				C
		SHSTB*39	C6H6	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	CCL3F	T	0.00	CQC			UM20	13-MAR-91	LT	1.40	UGL				C
		SHSTB*39	CCL4	T	0.00	CQC			UM20	13-MAR-91	LT	0.55	UGL				C
		SHSTB*39	CH2CL2	T	0.00	CQC			UM20	13-MAR-91	LT	2.20	UGL				C
		SHSTB*39	CH3BR	T	0.00	CQC			UM20	13-MAR-91	LT	5.70	UGL				C
		SHSTB*39	CH3CL	T	0.00	CQC			UM20	13-MAR-91	LT	3.40	UGL				C
		SHSTB*39	CHBR3	T	0.00	CQC			UM20	13-MAR-91	LT	2.50	UGL				C
		SHSTB*39	CHCL3	T	0.00	CQC			UM20	13-MAR-91	LT	0.51	UGL				C
		SHSTB*39	CL2BZ	T	0.00	CQC			UM20	13-MAR-91	ND	10.00	UGL	R			C
		SHSTB*39	CLC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	CS2	T	0.00	CQC			UM20	13-MAR-91	LT	0.57	UGL				C
		SHSTB*39	DBRCLM	T	0.00	CQC			UM20	13-MAR-91	LT	0.68	UGL				C
		SHSTB*39	ETC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	MEC6H5	T	0.00	CQC			UM20	13-MAR-91	LT	0.49	UGL				C
		SHSTB*39	MEK	T	0.00	CQC			UM20	13-MAR-91	LT	6.50	UGL				C
		SHSTB*39	MIBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.30	UGL				C
		SHSTB*39	MNBK	T	0.00	CQC			UM20	13-MAR-91	LT	3.90	UGL				C
		SHSTB*39	STYR	T	0.00	CQC			UM20	13-MAR-91	LT	0.45	UGL				C
		SHSTB*39	T13DCP	T	0.00	CQC			UM20	13-MAR-91	LT	0.73	UGL				C
		SHSTB*39	TCLEA	T	0.00	CQC			UM20	13-MAR-91	LT	0.50	UGL				C
		SHSTB*39	TCLEE	T	0.00	CQC			UM20	13-MAR-91	LT	1.60	UGL				C
		SHSTB*39	TRCLE	T	0.00	CQC			UM20	13-MAR-91	LT	0.48	UGL				C
		SHSTB*39	XYLEN	T	0.00	CQC			UM20	13-MAR-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 01-JAN-75 to 19-SEP-97
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJH	SHSTB*61	111TCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	112TCE	T	0.00	CQC			UM20	03-MAY-91	LT	1.30	UGL				C
		SHSTB*61	11DCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.47	UGL				C
		SHSTB*61	11DCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.69	UGL				C
		SHSTB*61	12DCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	12DCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	12DCLP	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	2CLEVE	T	0.00	CQC			UM20	03-MAY-91	LT	0.70	UGL				C
		SHSTB*61	ACET	T	0.00	CQC			UM20	03-MAY-91	LT	14.00	UGL				C
		SHSTB*61	ACROLN	T	0.00	CQC			UM20	03-MAY-91	ND	100.00	UGL	R			C
		SHSTB*61	ACRYLO	T	0.00	CQC			UM20	03-MAY-91	ND	100.00	UGL	R			C
		SHSTB*61	BRDCLM	T	0.00	CQC			UM20	03-MAY-91	LT	0.58	UGL				C
		SHSTB*61	C13DCP	T	0.00	CQC			UM20	03-MAY-91	LT	0.57	UGL				C
		SHSTB*61	C2AVE	T	0.00	CQC			UM20	03-MAY-91	LT	8.40	UGL				C
		SHSTB*61	C2H3CL	T	0.00	CQC			UM20	03-MAY-91	LT	2.70	UGL				C
		SHSTB*61	C2H5CL	T	0.00	CQC			UM20	03-MAY-91	LT	1.90	UGL				C
		SHSTB*61	C6H6	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	CCL3F	T	0.00	CQC			UM20	03-MAY-91	LT	1.40	UGL				C
		SHSTB*61	CCL4	T	0.00	CQC			UM20	03-MAY-91	LT	0.55	UGL				C
		SHSTB*61	CH2CL2	T	0.00	CQC			UM20	03-MAY-91	LT	2.20	UGL				C
		SHSTB*61	CH3BR	T	0.00	CQC			UM20	03-MAY-91	LT	5.70	UGL				C
		SHSTB*61	CH3CL	T	0.00	CQC			UM20	03-MAY-91	LT	3.40	UGL				C
		SHSTB*61	CHBR3	T	0.00	CQC			UM20	03-MAY-91	LT	2.50	UGL				C
		SHSTB*61	CHCL3	T	0.00	CQC			UM20	03-MAY-91	LT	0.51	UGL				C
		SHSTB*61	CL2BZ	T	0.00	CQC			UM20	03-MAY-91	ND	10.00	UGL	R			C
		SHSTB*61	CLC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	CS2	T	0.00	CQC			UM20	03-MAY-91	LT	0.57	UGL				C
		SHSTB*61	DBRCLM	T	0.00	CQC			UM20	03-MAY-91	LT	0.68	UGL				C
		SHSTB*61	ETC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	MEC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	MEK	T	0.00	CQC			UM20	03-MAY-91	LT	6.50	UGL				C
		SHSTB*61	MIBK	T	0.00	CQC			UM20	03-MAY-91	LT	3.30	UGL				C
		SHSTB*61	MNBK	T	0.00	CQC			UM20	03-MAY-91	LT	3.90	UGL				C
		SHSTB*61	STYR	T	0.00	CQC			UM20	03-MAY-91	LT	0.45	UGL				C
		SHSTB*61	T13DCP	T	0.00	CQC			UM20	03-MAY-91	LT	0.73	UGL				C
		SHSTB*61	TCLEA	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	TCLEE	T	0.00	CQC			UM20	03-MAY-91	LT	1.60	UGL				C
		SHSTB*61	TRCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	XYLEN	T	0.00	CQC			UM20	03-MAY-91	LT	0.79	UGL				C

** End of Report - 39 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJH	SHSTB*61	111TCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	112TCE	T	0.00	CQC			UM20	03-MAY-91	LT	1.30	UGL				C
		SHSTB*61	11DCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.47	UGL				C
		SHSTB*61	11DCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.69	UGL				C
		SHSTB*61	12DCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	12DCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	12DCLP	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	2CLEVE	T	0.00	CQC			UM20	03-MAY-91	LT	0.70	UGL				C
		SHSTB*61	ACET	T	0.00	CQC			UM20	03-MAY-91	LT	14.00	UGL				C
		SHSTB*61	ACROLN	T	0.00	CQC			UM20	03-MAY-91	ND	100.00	UGL	R			C
		SHSTB*61	ACRYLO	T	0.00	CQC			UM20	03-MAY-91	ND	100.00	UGL	R			C
		SHSTB*61	BRDCLM	T	0.00	CQC			UM20	03-MAY-91	LT	0.58	UGL				C
		SHSTB*61	C13DCP	T	0.00	CQC			UM20	03-MAY-91	LT	0.57	UGL				C
		SHSTB*61	C2AVE	T	0.00	CQC			UM20	03-MAY-91	LT	8.40	UGL				C
		SHSTB*61	C2H3CL	T	0.00	CQC			UM20	03-MAY-91	LT	2.70	UGL				C
		SHSTB*61	C2H5CL	T	0.00	CQC			UM20	03-MAY-91	LT	1.90	UGL				C
		SHSTB*61	C6H6	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	CCL3F	T	0.00	CQC			UM20	03-MAY-91	LT	1.40	UGL				C
		SHSTB*61	CCL4	T	0.00	CQC			UM20	03-MAY-91	LT	0.55	UGL				C
		SHSTB*61	CH2CL2	T	0.00	CQC			UM20	03-MAY-91	LT	2.20	UGL				C
		SHSTB*61	CH3BR	T	0.00	CQC			UM20	03-MAY-91	LT	5.70	UGL				C
		SHSTB*61	CH3CL	T	0.00	CQC			UM20	03-MAY-91	LT	3.40	UGL				C
		SHSTB*61	CHBR3	T	0.00	CQC			UM20	03-MAY-91	LT	2.50	UGL				C
		SHSTB*61	CHCL3	T	0.00	CQC			UM20	03-MAY-91	LT	0.51	UGL				C
		SHSTB*61	CL2BZ	T	0.00	CQC			UM20	03-MAY-91	ND	10.00	UGL	R			C
		SHSTB*61	CLC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	CS2	T	0.00	CQC			UM20	03-MAY-91	LT	0.57	UGL				C
		SHSTB*61	DBRCLM	T	0.00	CQC			UM20	03-MAY-91	LT	0.68	UGL				C
		SHSTB*61	ETC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	MEC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*61	MEK	T	0.00	CQC			UM20	03-MAY-91	LT	6.50	UGL				C
		SHSTB*61	MIBK	T	0.00	CQC			UM20	03-MAY-91	LT	3.30	UGL				C
		SHSTB*61	MNBK	T	0.00	CQC			UM20	03-MAY-91	LT	3.90	UGL				C
		SHSTB*61	STYR	T	0.00	CQC			UM20	03-MAY-91	LT	0.45	UGL				C
		SHSTB*61	T13DCP	T	0.00	CQC			UM20	03-MAY-91	LT	0.73	UGL				C
		SHSTB*61	TCLEA	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*61	TCLEE	T	0.00	CQC			UM20	03-MAY-91	LT	1.60	UGL				C
		SHSTB*61	TRCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*61	XYLEN	T	0.00	CQC			UM20	03-MAY-91	LT	0.79	UGL				C
		SHSTB*62	111TCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*62	112TCE	T	0.00	CQC			UM20	03-MAY-91	LT	1.30	UGL				C
		SHSTB*62	11DCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.47	UGL				C
		SHSTB*62	11DCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.69	UGL				C
		SHSTB*62	12DCE	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*62	12DCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*62	12DCLP	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*62	2CLEVE	T	0.00	CQC			UM20	03-MAY-91	LT	0.70	UGL				C
		SHSTB*62	ACET	T	0.00	CQC			UM20	03-MAY-91	LT	14.00	UGL				C
		SHSTB*62	ACROLN	T	0.00	CQC			UM20	03-MAY-91	ND	100.00	UGL	R			C
		SHSTB*62	ACRYLO	T	0.00	CQC			UM20	03-MAY-91	ND	100.00	UGL	R			C
[redacted]																	

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJH	SHSTB*62	C13DCP	T	0.00	CQC			UM20	03-MAY-91	LT	0.57	UGL				C
		SHSTB*62	C2AVE	T	0.00	CQC			UM20	03-MAY-91	LT	8.40	UGL				C
		SHSTB*62	C2H3CL	T	0.00	CQC			UM20	03-MAY-91	LT	2.70	UGL				C
		SHSTB*62	C2H5CL	T	0.00	CQC			UM20	03-MAY-91	LT	1.90	UGL				C
		SHSTB*62	C6H6	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*62	CCL3F	T	0.00	CQC			UM20	03-MAY-91	LT	1.40	UGL				C
		SHSTB*62	CCL4	T	0.00	CQC			UM20	03-MAY-91	LT	0.55	UGL				C
		SHSTB*62	CH2CL2	T	0.00	CQC			UM20	03-MAY-91	LT	2.20	UGL				C
		SHSTB*62	CH3BR	T	0.00	CQC			UM20	03-MAY-91	LT	5.70	UGL				C
		SHSTB*62	CH3CL	T	0.00	CQC			UM20	03-MAY-91	LT	3.40	UGL				C
		SHSTB*62	CHBR3	T	0.00	CQC			UM20	03-MAY-91	LT	2.50	UGL				C
		SHSTB*62	CHCL3	T	0.00	CQC			UM20	03-MAY-91	LT	0.51	UGL				C
		SHSTB*62	CL2BZ	T	0.00	CQC			UM20	03-MAY-91	ND	10.00	UGL	R			C
		SHSTB*62	CLC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*62	CS2	T	0.00	CQC			UM20	03-MAY-91	LT	0.57	UGL				C
		SHSTB*62	DBRCLM	T	0.00	CQC			UM20	03-MAY-91	LT	0.68	UGL				C
		SHSTB*62	ETC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*62	MEC6H5	T	0.00	CQC			UM20	03-MAY-91	LT	0.49	UGL				C
		SHSTB*62	MEK	T	0.00	CQC			UM20	03-MAY-91	LT	6.50	UGL				C
		SHSTB*62	MIBK	T	0.00	CQC			UM20	03-MAY-91	LT	3.30	UGL				C
		SHSTB*62	MNBK	T	0.00	CQC			UM20	03-MAY-91	LT	3.90	UGL				C
		SHSTB*62	STYR	T	0.00	CQC			UM20	03-MAY-91	LT	0.45	UGL				C
		SHSTB*62	T13DCP	T	0.00	CQC			UM20	03-MAY-91	LT	0.73	UGL				C
		SHSTB*62	TCLEA	T	0.00	CQC			UM20	03-MAY-91	LT	0.50	UGL				C
		SHSTB*62	TCLEE	T	0.00	CQC			UM20	03-MAY-91	LT	1.60	UGL				C
		SHSTB*62	TRCLE	T	0.00	CQC			UM20	03-MAY-91	LT	0.48	UGL				C
		SHSTB*62	XYLEN	T	0.00	CQC			UM20	03-MAY-91	LT	0.79	UGL				C
		SHSTB*63	111TCE	T	0.00	CQC			UM20	02-MAY-91	LT	0.50	UGL				C
		SHSTB*63	112TCE	T	0.00	CQC			UM20	02-MAY-91	LT	1.30	UGL				C
		SHSTB*63	11DCE	T	0.00	CQC			UM20	02-MAY-91	LT	0.47	UGL				C
		SHSTB*63	11DCLE	T	0.00	CQC			UM20	02-MAY-91	LT	0.69	UGL				C
		SHSTB*63	12DCE	T	0.00	CQC			UM20	02-MAY-91	LT	0.49	UGL				C
		SHSTB*63	12DCLE	T	0.00	CQC			UM20	02-MAY-91	LT	0.50	UGL				C
		SHSTB*63	12DCLP	T	0.00	CQC			UM20	02-MAY-91	LT	0.49	UGL				C
		SHSTB*63	2CLEVE	T	0.00	CQC			UM20	02-MAY-91	LT	0.70	UGL				C
		SHSTB*63	ACET	T	0.00	CQC			UM20	02-MAY-91	LT	14.00	UGL				C
		SHSTB*63	ACROLN	T	0.00	CQC			UM20	02-MAY-91	ND	100.00	UGL	R			C
		SHSTB*63	ACRYLO	T	0.00	CQC			UM20	02-MAY-91	ND	100.00	UGL	R			C
		SHSTB*63	BRDCLM	T	0.00	CQC			UM20	02-MAY-91	LT	0.58	UGL				C
		SHSTB*63	C13DCP	T	0.00	CQC			UM20	02-MAY-91	LT	0.57	UGL				C
		SHSTB*63	C2AVE	T	0.00	CQC			UM20	02-MAY-91	LT	8.40	UGL				C
		SHSTB*63	C2H3CL	T	0.00	CQC			UM20	02-MAY-91	LT	2.70	UGL				C
		SHSTB*63	C2H5CL	T	0.00	CQC			UM20	02-MAY-91	LT	1.90	UGL				C
		SHSTB*63	C6H6	T	0.00	CQC			UM20	02-MAY-91	LT	0.50	UGL				C
		SHSTB*63	CCL3F	T	0.00	CQC			UM20	02-MAY-91	LT	1.40	UGL				C
		SHSTB*63	CCL4	T	0.00	CQC			UM20	02-MAY-91	LT	0.55	UGL				C
		SHSTB*63	CH2CL2	T	0.00	CQC			UM20	02-MAY-91	LT	2.20	UGL				C
		SHSTB*63	CH3BR	T	0.00	CQC			UM20	02-MAY-91	LT	5.70	UGL				C
		SHSTB*63	CH3CL	T	0.00	CQC			UM20	02-MAY-91	LT	3.40	UGL				C
		SHSTB*63	CHBR3	T	0.00	CQC			UM20	02-MAY-91	LT	2.50	UGL				C
		SHSTB*63	CHCL3	T	0.00	CQC			UM20	02-MAY-91	LT	0.51	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJH	SHSTB*63	CL2BZ	T	0.00	CQC			UM20	02-MAY-91	ND	10.00	UGL	R			C
		SHSTB*63	CLC6H5	T	0.00	CQC			UM20	02-MAY-91	LT	0.48	UGL				C
		SHSTB*63	CS2	T	0.00	CQC			UM20	02-MAY-91	LT	0.57	UGL				C
		SHSTB*63	DBRCLM	T	0.00	CQC			UM20	02-MAY-91	LT	0.68	UGL				C
		SHSTB*63	ETC6H5	T	0.00	CQC			UM20	02-MAY-91	LT	0.48	UGL				C
		SHSTB*63	MEC6H5	T	0.00	CQC			UM20	02-MAY-91	LT	0.49	UGL				C
		SHSTB*63	MEK	T	0.00	CQC			UM20	02-MAY-91	LT	6.50	UGL				C
		SHSTB*63	MIBK	T	0.00	CQC			UM20	02-MAY-91	LT	3.30	UGL				C
		SHSTB*63	MNBK	T	0.00	CQC			UM20	02-MAY-91	LT	3.90	UGL				C
		SHSTB*63	STYR	T	0.00	CQC			UM20	02-MAY-91	LT	0.45	UGL				C
		SHSTB*63	T13DCP	T	0.00	CQC			UM20	02-MAY-91	LT	0.73	UGL				C
		SHSTB*63	TCLEA	T	0.00	CQC			UM20	02-MAY-91	LT	0.50	UGL				C
		SHSTB*63	TCLEE	T	0.00	CQC			UM20	02-MAY-91	LT	1.60	UGL				C
		SHSTB*63	TRCLE	T	0.00	CQC			UM20	02-MAY-91	LT	0.48	UGL				C
		SHSTB*63	XYLEN	T	0.00	CQC			UM20	02-MAY-91	LT	0.79	UGL				C
		SHSTB*67	111TCE	T	0.00	CQC			UM20	02-MAY-91	LT	0.50	UGL				C
		SHSTB*67	112TCE	T	0.00	CQC			UM20	02-MAY-91	LT	1.30	UGL				C
		SHSTB*67	11DCE	T	0.00	CQC			UM20	02-MAY-91	LT	0.47	UGL				C
		SHSTB*67	11DCLE	T	0.00	CQC			UM20	02-MAY-91	LT	0.69	UGL				C
		SHSTB*67	12DCE	T	0.00	CQC			UM20	02-MAY-91	LT	0.49	UGL				C
		SHSTB*67	12DCLE	T	0.00	CQC			UM20	02-MAY-91	LT	0.50	UGL				C
		SHSTB*67	12DCLP	T	0.00	CQC			UM20	02-MAY-91	LT	0.49	UGL				C
		SHSTB*67	2CLEVE	T	0.00	CQC			UM20	02-MAY-91	LT	0.70	UGL				C
		SHSTB*67	ACET	T	0.00	CQC			UM20	02-MAY-91	LT	14.00	UGL				C
		SHSTB*67	ACROLN	T	0.00	CQC			UM20	02-MAY-91	ND	100.00	UGL	R			C
		SHSTB*67	ACRYLO	T	0.00	CQC			UM20	02-MAY-91	ND	100.00	UGL	R			C
		SHSTB*67	BRDCLM	T	0.00	CQC			UM20	02-MAY-91	LT	0.58	UGL				C
		SHSTB*67	C13DCP	T	0.00	CQC			UM20	02-MAY-91	LT	0.57	UGL				C
		SHSTB*67	C2AVE	T	0.00	CQC			UM20	02-MAY-91	LT	8.40	UGL				C
		SHSTB*67	C2H3CL	T	0.00	CQC			UM20	02-MAY-91	LT	2.70	UGL				C
		SHSTB*67	C2H5CL	T	0.00	CQC			UM20	02-MAY-91	LT	1.90	UGL				C
		SHSTB*67	C6H6	T	0.00	CQC			UM20	02-MAY-91	LT	0.50	UGL				C
		SHSTB*67	CCL3F	T	0.00	CQC			UM20	02-MAY-91	LT	1.40	UGL				C
		SHSTB*67	CCL4	T	0.00	CQC			UM20	02-MAY-91	LT	0.55	UGL				C
		SHSTB*67	CH2CL2	T	0.00	CQC			UM20	02-MAY-91	LT	2.20	UGL				C
		SHSTB*67	CH3BR	T	0.00	CQC			UM20	02-MAY-91	LT	5.70	UGL				C
		SHSTB*67	CH3CL	T	0.00	CQC			UM20	02-MAY-91	LT	3.40	UGL				C
		SHSTB*67	CHBR3	T	0.00	CQC			UM20	02-MAY-91	LT	2.50	UGL				C
		SHSTB*67	CHCL3	T	0.00	CQC			UM20	02-MAY-91	LT	0.51	UGL				C
		SHSTB*67	CL2BZ	T	0.00	CQC			UM20	02-MAY-91	ND	10.00	UGL	R			C
		SHSTB*67	CLC6H5	T	0.00	CQC			UM20	02-MAY-91	LT	0.48	UGL				C
		SHSTB*67	CS2	T	0.00	CQC			UM20	02-MAY-91	LT	0.57	UGL				C
		SHSTB*67	DBRCLM	T	0.00	CQC			UM20	02-MAY-91	LT	0.68	UGL				C
		SHSTB*67	ETC6H5	T	0.00	CQC			UM20	02-MAY-91	LT	0.48	UGL				C
		SHSTB*67	MEC6H5	T	0.00	CQC			UM20	02-MAY-91	LT	0.49	UGL				C
		SHSTB*67	MEK	T	0.00	CQC			UM20	02-MAY-91	LT	6.50	UGL				C
		SHSTB*67	MIBK	T	0.00	CQC			UM20	02-MAY-91	LT	3.30	UGL				C
		SHSTB*67	MNBK	T	0.00	CQC			UM20	02-MAY-91	LT	3.90	UGL				C
		SHSTB*67	STYR	T	0.00	CQC			UM20	02-MAY-91	LT	0.45	UGL				C
[redacted]																	
		SHSTB*67	TCLEA	T	0.00	CQC			UM20	02-MAY-91	LT	0.50	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJH	SHSTB*67	TCLEE	T	0.00	CQC			UM20	02-MAY-91	LT	1.60	UGL				C
		SHSTB*67	TRCLE	T	0.00	CQC			UM20	02-MAY-91	LT	0.48	UGL				C
		SHSTB*67	XYLEN	T	0.00	CQC			UM20	02-MAY-91	LT	0.79	UGL				C
ES	VJJ	SHSTB*64	111TCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*64	112TCE	T	0.00	CQC			UM20	04-MAY-91	LT	1.30	UGL				C
		SHSTB*64	11DCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.47	UGL				C
		SHSTB*64	11DCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.69	UGL				C
		SHSTB*64	12DCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C
		SHSTB*64	12DCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*64	12DCLP	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C
		SHSTB*64	2CLEVE	T	0.00	CQC			UM20	04-MAY-91	LT	0.70	UGL				C
		SHSTB*64	ACET	T	0.00	CQC			UM20	04-MAY-91	LT	14.00	UGL				C
		SHSTB*64	ACROLN	T	0.00	CQC			UM20	04-MAY-91	ND	100.00	UGL	R			C
		SHSTB*64	ACRYLO	T	0.00	CQC			UM20	04-MAY-91	ND	100.00	UGL	R			C
		SHSTB*64	BRDCLM	T	0.00	CQC			UM20	04-MAY-91	LT	0.58	UGL				C
		SHSTB*64	C13DCP	T	0.00	CQC			UM20	04-MAY-91	LT	0.57	UGL				C
		SHSTB*64	C2AVE	T	0.00	CQC			UM20	04-MAY-91	LT	8.40	UGL				C
		SHSTB*64	C2H3CL	T	0.00	CQC			UM20	04-MAY-91	LT	2.70	UGL				C
		SHSTB*64	C2H5CL	T	0.00	CQC			UM20	04-MAY-91	LT	1.90	UGL				C
		SHSTB*64	C6H6	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*64	CCL3F	T	0.00	CQC			UM20	04-MAY-91	LT	1.40	UGL				C
		SHSTB*64	CCL4	T	0.00	CQC			UM20	04-MAY-91	LT	0.55	UGL				C
		SHSTB*64	CH2CL2	T	0.00	CQC			UM20	04-MAY-91	LT	2.20	UGL				C
		SHSTB*64	CH3BR	T	0.00	CQC			UM20	04-MAY-91	LT	5.70	UGL				C
		SHSTB*64	CH3CL	T	0.00	CQC			UM20	04-MAY-91	LT	3.40	UGL				C
		SHSTB*64	CHBR3	T	0.00	CQC			UM20	04-MAY-91	LT	2.50	UGL				C
		SHSTB*64	CHCL3	T	0.00	CQC			UM20	04-MAY-91	LT	0.51	UGL				C
		SHSTB*64	CL2BZ	T	0.00	CQC			UM20	04-MAY-91	ND	10.00	UGL	R			C
		SHSTB*64	CLC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*64	CS2	T	0.00	CQC			UM20	04-MAY-91	LT	0.57	UGL				C
		SHSTB*64	DBRCLM	T	0.00	CQC			UM20	04-MAY-91	LT	0.68	UGL				C
		SHSTB*64	ETC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*64	MEC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C
		SHSTB*64	MEK	T	0.00	CQC			UM20	04-MAY-91	LT	6.50	UGL				C
		SHSTB*64	MIBK	T	0.00	CQC			UM20	04-MAY-91	LT	3.30	UGL				C
		SHSTB*64	MNBK	T	0.00	CQC			UM20	04-MAY-91	LT	3.90	UGL				C
		SHSTB*64	STYR	T	0.00	CQC			UM20	04-MAY-91	LT	0.45	UGL				C
		SHSTB*64	T13DCP	T	0.00	CQC			UM20	04-MAY-91	LT	0.73	UGL				C
		SHSTB*64	TCLEA	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*64	TCLEE	T	0.00	CQC			UM20	04-MAY-91	LT	1.60	UGL				C
		SHSTB*64	TRCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*64	XYLEN	T	0.00	CQC			UM20	04-MAY-91	LT	0.79	UGL				C
		SHSTB*65	111TCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*65	112TCE	T	0.00	CQC			UM20	04-MAY-91	LT	1.30	UGL				C
		SHSTB*65	11DCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.47	UGL				C
		SHSTB*65	11DCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.69	UGL				C
		SHSTB*65	12DCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C
		SHSTB*65	12DCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*65	12DCLP	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJJ	SHSTB*65	2CLEVE	T	0.00	CQC			UM20	04-MAY-91	LT	0.70	UGL				C
		SHSTB*65	ACET	T	0.00	CQC			UM20	04-MAY-91	LT	14.00	UGL				C
		SHSTB*65	ACROLN	T	0.00	CQC			UM20	04-MAY-91	ND	100.00	UGL	R			C
		SHSTB*65	ACRYLO	T	0.00	CQC			UM20	04-MAY-91	ND	100.00	UGL	R			C
		SHSTB*65	BRDCLM	T	0.00	CQC			UM20	04-MAY-91	LT	0.58	UGL				C
		SHSTB*65	C13DCP	T	0.00	CQC			UM20	04-MAY-91	LT	0.57	UGL				C
		SHSTB*65	C2AVE	T	0.00	CQC			UM20	04-MAY-91	LT	8.40	UGL				C
		SHSTB*65	C2H3CL	T	0.00	CQC			UM20	04-MAY-91	LT	2.70	UGL				C
		SHSTB*65	C2H5CL	T	0.00	CQC			UM20	04-MAY-91	LT	1.90	UGL				C
		SHSTB*65	C6H6	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*65	CCL3F	T	0.00	CQC			UM20	04-MAY-91	LT	1.40	UGL				C
		SHSTB*65	CCL4	T	0.00	CQC			UM20	04-MAY-91	LT	0.55	UGL				C
		SHSTB*65	CH2CL2	T	0.00	CQC			UM20	04-MAY-91	LT	2.20	UGL				C
		SHSTB*65	CH3BR	T	0.00	CQC			UM20	04-MAY-91	LT	5.70	UGL				C
		SHSTB*65	CH3CL	T	0.00	CQC			UM20	04-MAY-91	LT	3.40	UGL				C
		SHSTB*65	CHBR3	T	0.00	CQC			UM20	04-MAY-91	LT	2.50	UGL				C
		SHSTB*65	CHCL3	T	0.00	CQC			UM20	04-MAY-91	LT	0.51	UGL				C
		SHSTB*65	CL2BZ	T	0.00	CQC			UM20	04-MAY-91	ND	10.00	UGL	R			C
		SHSTB*65	CLC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*65	CS2	T	0.00	CQC			UM20	04-MAY-91	LT	0.57	UGL				C
		SHSTB*65	DBRCLM	T	0.00	CQC			UM20	04-MAY-91	LT	0.68	UGL				C
		SHSTB*65	ETC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*65	MEC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C
		SHSTB*65	MEK	T	0.00	CQC			UM20	04-MAY-91	LT	6.50	UGL				C
		SHSTB*65	MIBK	T	0.00	CQC			UM20	04-MAY-91	LT	3.30	UGL				C
		SHSTB*65	MNBK	T	0.00	CQC			UM20	04-MAY-91	LT	3.90	UGL				C
		SHSTB*65	STYR	T	0.00	CQC			UM20	04-MAY-91	LT	0.45	UGL				C
		SHSTB*65	T13DCP	T	0.00	CQC			UM20	04-MAY-91	LT	0.73	UGL				C
		SHSTB*65	TCLEA	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*65	TCLEE	T	0.00	CQC			UM20	04-MAY-91	LT	1.60	UGL				C
		SHSTB*65	TRCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*65	XYLEN	T	0.00	CQC			UM20	04-MAY-91	LT	0.79	UGL				C
		SHSTB*66	111TCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*66	112TCE	T	0.00	CQC			UM20	04-MAY-91	LT	1.30	UGL				C
		SHSTB*66	11DCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.47	UGL				C
		SHSTB*66	11DCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.69	UGL				C
		SHSTB*66	12DCE	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C
		SHSTB*66	12DCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*66	12DCLP	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C
		SHSTB*66	2CLEVE	T	0.00	CQC			UM20	04-MAY-91	LT	0.70	UGL				C
		SHSTB*66	ACET	T	0.00	CQC			UM20	04-MAY-91	LT	14.00	UGL				C
		SHSTB*66	ACROLN	T	0.00	CQC			UM20	04-MAY-91	ND	100.00	UGL	R			C
		SHSTB*66	ACRYLO	T	0.00	CQC			UM20	04-MAY-91	ND	100.00	UGL	R			C
		SHSTB*66	BRDCLM	T	0.00	CQC			UM20	04-MAY-91	LT	0.58	UGL				C
		SHSTB*66	C13DCP	T	0.00	CQC			UM20	04-MAY-91	LT	0.57	UGL				C
		SHSTB*66	C2AVE	T	0.00	CQC			UM20	04-MAY-91	LT	8.40	UGL				C
		SHSTB*66	C2H3CL	T	0.00	CQC			UM20	04-MAY-91	LT	2.70	UGL				C
		SHSTB*66	C2H5CL	T	0.00	CQC			UM20	04-MAY-91	LT	1.90	UGL				C
		SHSTB*66	C6H6	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
[redacted]		SHSTB*66	CCL3F	T	0.00	CQC			UM20	04-MAY-91	LT	1.40	UGL				C
[redacted]		SHSTB*66	CCL4	T	0.00	CQC			UM20	04-MAY-91	LT	0.55	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJJ	SHSTB*66	CH2CL2	T	0.00	CQC			UM20	04-MAY-91	LT	2.20	UGL				C
		SHSTB*66	CH3BR	T	0.00	CQC			UM20	04-MAY-91	LT	5.70	UGL				C
		SHSTB*66	CH3CL	T	0.00	CQC			UM20	04-MAY-91	LT	3.40	UGL				C
		SHSTB*66	CHBR3	T	0.00	CQC			UM20	04-MAY-91	LT	2.50	UGL				C
		SHSTB*66	CHCL3	T	0.00	CQC			UM20	04-MAY-91	LT	0.51	UGL				C
		SHSTB*66	CL2BZ	T	0.00	CQC			UM20	04-MAY-91	ND	10.00	UGL	R			C
		SHSTB*66	CLC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*66	CS2	T	0.00	CQC			UM20	04-MAY-91	LT	0.57	UGL				C
		SHSTB*66	DBRCLM	T	0.00	CQC			UM20	04-MAY-91	LT	0.68	UGL				C
		SHSTB*66	ETC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*66	MEC6H5	T	0.00	CQC			UM20	04-MAY-91	LT	0.49	UGL				C
		SHSTB*66	MEK	T	0.00	CQC			UM20	04-MAY-91	LT	6.50	UGL				C
		SHSTB*66	MIBK	T	0.00	CQC			UM20	04-MAY-91	LT	3.30	UGL				C
		SHSTB*66	MNBK	T	0.00	CQC			UM20	04-MAY-91	LT	3.90	UGL				C
		SHSTB*66	STYR	T	0.00	CQC			UM20	04-MAY-91	LT	0.45	UGL				C
		SHSTB*66	T13DCP	T	0.00	CQC			UM20	04-MAY-91	LT	0.73	UGL				C
		SHSTB*66	TCLEA	T	0.00	CQC			UM20	04-MAY-91	LT	0.50	UGL				C
		SHSTB*66	TCLEE	T	0.00	CQC			UM20	04-MAY-91	LT	1.60	UGL				C
		SHSTB*66	TRCLE	T	0.00	CQC			UM20	04-MAY-91	LT	0.48	UGL				C
		SHSTB*66	XYLEN	T	0.00	CQC			UM20	04-MAY-91	LT	0.79	UGL				C
		SHSTB*68	111TCE	T	0.00	CQC			UM20	05-MAY-91	LT	0.50	UGL				C
		SHSTB*68	112TCE	T	0.00	CQC			UM20	05-MAY-91	LT	1.30	UGL				C
		SHSTB*68	11DCE	T	0.00	CQC			UM20	05-MAY-91	LT	0.47	UGL				C
		SHSTB*68	11DCLE	T	0.00	CQC			UM20	05-MAY-91	LT	0.69	UGL				C
		SHSTB*68	12DCE	T	0.00	CQC			UM20	05-MAY-91	LT	0.49	UGL				C
		SHSTB*68	12DCLE	T	0.00	CQC			UM20	05-MAY-91	LT	0.50	UGL				C
		SHSTB*68	12DCLP	T	0.00	CQC			UM20	05-MAY-91	LT	0.49	UGL				C
		SHSTB*68	2CLEVE	T	0.00	CQC			UM20	05-MAY-91	LT	0.70	UGL				C
		SHSTB*68	ACET	T	0.00	CQC			UM20	05-MAY-91	LT	14.00	UGL				C
		SHSTB*68	ACROLN	T	0.00	CQC			UM20	05-MAY-91	ND	100.00	UGL	R			C
		SHSTB*68	ACRYLO	T	0.00	CQC			UM20	05-MAY-91	ND	100.00	UGL	R			C
		SHSTB*68	BRDCLM	T	0.00	CQC			UM20	05-MAY-91	LT	0.58	UGL				C
		SHSTB*68	C13DCP	T	0.00	CQC			UM20	05-MAY-91	LT	0.57	UGL				C
		SHSTB*68	C2AVE	T	0.00	CQC			UM20	05-MAY-91	LT	8.40	UGL				C
		SHSTB*68	C2H3CL	T	0.00	CQC			UM20	05-MAY-91	LT	2.70	UGL				C
		SHSTB*68	C2H5CL	T	0.00	CQC			UM20	05-MAY-91	LT	1.90	UGL				C
		SHSTB*68	C6H6	T	0.00	CQC			UM20	05-MAY-91	LT	0.50	UGL				C
		SHSTB*68	CCL3F	T	0.00	CQC			UM20	05-MAY-91	LT	1.40	UGL				C
		SHSTB*68	CCL4	T	0.00	CQC			UM20	05-MAY-91	LT	0.55	UGL				C
		SHSTB*68	CH2CL2	T	0.00	CQC			UM20	05-MAY-91	LT	2.20	UGL				C
		SHSTB*68	CH3BR	T	0.00	CQC			UM20	05-MAY-91	LT	5.70	UGL				C
		SHSTB*68	CH3CL	T	0.00	CQC			UM20	05-MAY-91	LT	3.40	UGL				C
		SHSTB*68	CHBR3	T	0.00	CQC			UM20	05-MAY-91	LT	2.50	UGL				C
		SHSTB*68	CHCL3	T	0.00	CQC			UM20	05-MAY-91	LT	0.51	UGL				C
		SHSTB*68	CL2BZ	T	0.00	CQC			UM20	05-MAY-91	ND	10.00	UGL	R			C
		SHSTB*68	CLC6H5	T	0.00	CQC			UM20	05-MAY-91	LT	0.48	UGL				C
		SHSTB*68	CS2	T	0.00	CQC			UM20	05-MAY-91		15.00	UGL				C
		SHSTB*68	DBRCLM	T	0.00	CQC			UM20	05-MAY-91	LT	0.68	UGL				C
		SHSTB*68	ETC6H5	T	0.00	CQC			UM20	05-MAY-91	LT	0.48	UGL				C
		SHSTB*68	MEC6H5	T	0.00	CQC			UM20	05-MAY-91	LT	0.49	UGL				C
		SHSTB*68	MEK	T	0.00	CQC			UM20	05-MAY-91	LT	6.50	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJJ	SHSTB*68	MIBK	T	0.00	CQC			UM20	05-MAY-91	LT	3.30	UGL				C
		SHSTB*68	MNBK	T	0.00	CQC			UM20	05-MAY-91	LT	3.90	UGL				C
		SHSTB*68	STYR	T	0.00	CQC			UM20	05-MAY-91	LT	0.45	UGL				C
		SHSTB*68	T13DCP	T	0.00	CQC			UM20	05-MAY-91	LT	0.73	UGL				C
		SHSTB*68	TCLEA	T	0.00	CQC			UM20	05-MAY-91	LT	0.50	UGL				C
		SHSTB*68	TCLEE	T	0.00	CQC			UM20	05-MAY-91	LT	1.60	UGL				C
		SHSTB*68	TRCLE	T	0.00	CQC			UM20	05-MAY-91	LT	0.48	UGL				C
		SHSTB*68	XYLEN	T	0.00	CQC			UM20	05-MAY-91	LT	0.79	UGL				C
ES	VJK	SHSTB*69	111TCE	T	0.00	CQC			UM20	08-MAY-91	LT	0.50	UGL				C
		SHSTB*69	112TCE	T	0.00	CQC			UM20	08-MAY-91	LT	1.30	UGL				C
		SHSTB*69	11DCE	T	0.00	CQC			UM20	08-MAY-91	LT	0.47	UGL				C
		SHSTB*69	11DCLE	T	0.00	CQC			UM20	08-MAY-91	LT	0.69	UGL				C
		SHSTB*69	12DCE	T	0.00	CQC			UM20	08-MAY-91	LT	0.49	UGL				C
		SHSTB*69	12DCLE	T	0.00	CQC			UM20	08-MAY-91	LT	0.50	UGL				C
		SHSTB*69	12DCLP	T	0.00	CQC			UM20	08-MAY-91	LT	0.49	UGL				C
		SHSTB*69	2CLEVE	T	0.00	CQC			UM20	08-MAY-91	LT	0.70	UGL				C
		SHSTB*69	ACET	T	0.00	CQC			UM20	08-MAY-91	LT	14.00	UGL				C
		SHSTB*69	ACROLN	T	0.00	CQC			UM20	08-MAY-91	ND	100.00	UGL	R			C
		SHSTB*69	ACRYLO	T	0.00	CQC			UM20	08-MAY-91	ND	100.00	UGL	R			C
		SHSTB*69	BRDCLM	T	0.00	CQC			UM20	08-MAY-91	LT	0.58	UGL				C
		SHSTB*69	C13DCP	T	0.00	CQC			UM20	08-MAY-91	LT	0.57	UGL				C
		SHSTB*69	C2AVE	T	0.00	CQC			UM20	08-MAY-91	LT	8.40	UGL				C
		SHSTB*69	C2H3CL	T	0.00	CQC			UM20	08-MAY-91	LT	2.70	UGL				C
		SHSTB*69	C2H5CL	T	0.00	CQC			UM20	08-MAY-91	LT	1.90	UGL				C
		SHSTB*69	C6H6	T	0.00	CQC			UM20	08-MAY-91	LT	0.50	UGL				C
		SHSTB*69	CCL3F	T	0.00	CQC			UM20	08-MAY-91	LT	1.40	UGL				C
		SHSTB*69	CCL4	T	0.00	CQC			UM20	08-MAY-91	LT	0.55	UGL				C
		SHSTB*69	CH2CL2	T	0.00	CQC			UM20	08-MAY-91	LT	2.20	UGL				C
		SHSTB*69	CH3BR	T	0.00	CQC			UM20	08-MAY-91	LT	5.70	UGL				C
		SHSTB*69	CH3CL	T	0.00	CQC			UM20	08-MAY-91	LT	3.40	UGL				C
		SHSTB*69	CHBR3	T	0.00	CQC			UM20	08-MAY-91	LT	2.50	UGL				C
		SHSTB*69	CHCL3	T	0.00	CQC			UM20	08-MAY-91	LT	0.51	UGL				C
		SHSTB*69	CL2BZ	T	0.00	CQC			UM20	08-MAY-91	ND	10.00	UGL	R			C
		SHSTB*69	CLC6H5	T	0.00	CQC			UM20	08-MAY-91	LT	0.48	UGL				C
		SHSTB*69	CS2	T	0.00	CQC			UM20	08-MAY-91	LT	0.57	UGL				C
		SHSTB*69	DBRCLM	T	0.00	CQC			UM20	08-MAY-91	LT	0.68	UGL				C
		SHSTB*69	ETC6H5	T	0.00	CQC			UM20	08-MAY-91	LT	0.48	UGL				C
		SHSTB*69	MEC6H5	T	0.00	CQC			UM20	08-MAY-91	LT	0.49	UGL				C
		SHSTB*69	MEK	T	0.00	CQC			UM20	08-MAY-91	LT	6.50	UGL				C
		SHSTB*69	MIBK	T	0.00	CQC			UM20	08-MAY-91	LT	3.30	UGL				C
		SHSTB*69	MNBK	T	0.00	CQC			UM20	08-MAY-91	LT	3.90	UGL				C
		SHSTB*69	STYR	T	0.00	CQC			UM20	08-MAY-91	LT	0.45	UGL				C
		SHSTB*69	T13DCP	T	0.00	CQC			UM20	08-MAY-91	LT	0.73	UGL				C
		SHSTB*69	TCLEA	T	0.00	CQC			UM20	08-MAY-91	LT	0.50	UGL				C
		SHSTB*69	TCLEE	T	0.00	CQC			UM20	08-MAY-91	LT	1.60	UGL				C
		SHSTB*69	TRCLE	T	0.00	CQC			UM20	08-MAY-91	LT	0.48	UGL				C
		SHSTB*69	XYLEN	T	0.00	CQC			UM20	08-MAY-91	LT	0.79	UGL				C
		SHSTB*70	111TCE	T	0.00	CQC			UM20	08-MAY-91	LT	0.50	UGL				C
		SHSTB*70	TCE	T	0.00	CQC			UM20	08-MAY-91	LT	1.30	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJK	SHSTB*70	11DCE	T	0.00	CQC			UM20	08-MAY-91	LT	0.47	UGL				C
		SHSTB*70	11DCLE	T	0.00	CQC			UM20	08-MAY-91	LT	0.69	UGL				C
		SHSTB*70	12DCE	T	0.00	CQC			UM20	08-MAY-91	LT	0.49	UGL				C
		SHSTB*70	12DCLE	T	0.00	CQC			UM20	08-MAY-91	LT	0.50	UGL				C
		SHSTB*70	12DCLP	T	0.00	CQC			UM20	08-MAY-91	LT	0.49	UGL				C
		SHSTB*70	2CLEVE	T	0.00	CQC			UM20	08-MAY-91	LT	0.70	UGL				C
		SHSTB*70	ACET	T	0.00	CQC			UM20	08-MAY-91	LT	14.00	UGL				C
		SHSTB*70	ACROLN	T	0.00	CQC			UM20	08-MAY-91	ND	100.00	UGL	R			C
		SHSTB*70	ACRYLO	T	0.00	CQC			UM20	08-MAY-91	ND	100.00	UGL	R			C
		SHSTB*70	BRDCLM	T	0.00	CQC			UM20	08-MAY-91	LT	0.58	UGL				C
		SHSTB*70	C13DCP	T	0.00	CQC			UM20	08-MAY-91	LT	0.57	UGL				C
		SHSTB*70	C2AVE	T	0.00	CQC			UM20	08-MAY-91	LT	8.40	UGL				C
		SHSTB*70	C2H3CL	T	0.00	CQC			UM20	08-MAY-91	LT	2.70	UGL				C
		SHSTB*70	C2H5CL	T	0.00	CQC			UM20	08-MAY-91	LT	1.90	UGL				C
		SHSTB*70	C6H6	T	0.00	CQC			UM20	08-MAY-91	LT	0.50	UGL				C
		SHSTB*70	CCL3F	T	0.00	CQC			UM20	08-MAY-91	LT	1.40	UGL				C
		SHSTB*70	CCL4	T	0.00	CQC			UM20	08-MAY-91	LT	0.55	UGL				C
		SHSTB*70	CH2CL2	T	0.00	CQC			UM20	08-MAY-91	LT	2.20	UGL				C
		SHSTB*70	CH3BR	T	0.00	CQC			UM20	08-MAY-91	LT	5.70	UGL				C
		SHSTB*70	CH3CL	T	0.00	CQC			UM20	08-MAY-91	LT	3.40	UGL				C
		SHSTB*70	CHBR3	T	0.00	CQC			UM20	08-MAY-91	LT	2.50	UGL				C
		SHSTB*70	CHCL3	T	0.00	CQC			UM20	08-MAY-91	LT	0.51	UGL				C
		SHSTB*70	CL2BZ	T	0.00	CQC			UM20	08-MAY-91	ND	10.00	UGL	R			C
		SHSTB*70	CLC6H5	T	0.00	CQC			UM20	08-MAY-91	LT	0.48	UGL				C
		SHSTB*70	CS2	T	0.00	CQC			UM20	08-MAY-91	LT	0.57	UGL				C
		SHSTB*70	DBRCLM	T	0.00	CQC			UM20	08-MAY-91	LT	0.68	UGL				C
		SHSTB*70	ETC6H5	T	0.00	CQC			UM20	08-MAY-91	LT	0.48	UGL				C
		SHSTB*70	MEC6H5	T	0.00	CQC			UM20	08-MAY-91	LT	0.49	UGL				C
		SHSTB*70	MEK	T	0.00	CQC			UM20	08-MAY-91	LT	6.50	UGL				C
		SHSTB*70	MIBK	T	0.00	CQC			UM20	08-MAY-91	LT	3.30	UGL				C
		SHSTB*70	MNBK	T	0.00	CQC			UM20	08-MAY-91	LT	3.90	UGL				C
		SHSTB*70	STYR	T	0.00	CQC			UM20	08-MAY-91	LT	0.45	UGL				C
		SHSTB*70	T13DCP	T	0.00	CQC			UM20	08-MAY-91	LT	0.73	UGL				C
		SHSTB*70	TCLEA	T	0.00	CQC			UM20	08-MAY-91	LT	0.50	UGL				C
		SHSTB*70	TCLEE	T	0.00	CQC			UM20	08-MAY-91	LT	1.60	UGL				C
		SHSTB*70	TRCLE	T	0.00	CQC			UM20	08-MAY-91	LT	0.48	UGL				C
		SHSTB*70	XYLEN	T	0.00	CQC			UM20	08-MAY-91	LT	0.79	UGL				C
ES	VJN	SHSTB*71	111TCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*71	112TCE	T	0.00	CQC			UM20	21-MAY-91	LT	1.30	UGL				C
		SHSTB*71	11DCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.47	UGL				C
		SHSTB*71	11DCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.69	UGL				C
		SHSTB*71	12DCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*71	12DCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*71	12DCLP	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*71	2CLEVE	T	0.00	CQC			UM20	21-MAY-91	LT	0.70	UGL				C
		SHSTB*71	ACET	T	0.00	CQC			UM20	21-MAY-91	LT	14.00	UGL				C
		SHSTB*71	ACROLN	T	0.00	CQC			UM20	21-MAY-91	ND	100.00	UGL	R			C
		SHSTB*71	ACRYLO	T	0.00	CQC			UM20	21-MAY-91	ND	100.00	UGL	R			C
		SHSTB*71	BRDCLM	T	0.00	CQC			UM20	21-MAY-91	LT	0.58	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJN	SHSTB*71	C13DCP	T	0.00	CQC			UM20	21-MAY-91	LT	0.57	UGL				C
		SHSTB*71	C2AVE	T	0.00	CQC			UM20	21-MAY-91	LT	8.40	UGL				C
		SHSTB*71	C2H3CL	T	0.00	CQC			UM20	21-MAY-91	LT	2.70	UGL				C
		SHSTB*71	C2H5CL	T	0.00	CQC			UM20	21-MAY-91	LT	1.90	UGL				C
		SHSTB*71	C6H6	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*71	CCL3F	T	0.00	CQC			UM20	21-MAY-91	LT	1.40	UGL				C
		SHSTB*71	CCL4	T	0.00	CQC			UM20	21-MAY-91	LT	0.55	UGL				C
		SHSTB*71	CH2CL2	T	0.00	CQC			UM20	21-MAY-91	LT	2.20	UGL				C
		SHSTB*71	CH3BR	T	0.00	CQC			UM20	21-MAY-91	LT	5.70	UGL				C
		SHSTB*71	CH3CL	T	0.00	CQC			UM20	21-MAY-91	LT	3.40	UGL				C
		SHSTB*71	CHBR3	T	0.00	CQC			UM20	21-MAY-91	LT	2.50	UGL				C
		SHSTB*71	CHCL3	T	0.00	CQC			UM20	21-MAY-91	LT	0.51	UGL				C
		SHSTB*71	CL2BZ	T	0.00	CQC			UM20	21-MAY-91	ND	10.00	UGL	R			C
		SHSTB*71	CLC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*71	CS2	T	0.00	CQC			UM20	21-MAY-91	LT	0.57	UGL				C
		SHSTB*71	DBRCLM	T	0.00	CQC			UM20	21-MAY-91	LT	0.68	UGL				C
		SHSTB*71	ETC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*71	MEC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*71	MEK	T	0.00	CQC			UM20	21-MAY-91	LT	6.50	UGL				C
		SHSTB*71	MIBK	T	0.00	CQC			UM20	21-MAY-91	LT	3.30	UGL				C
		SHSTB*71	MNBK	T	0.00	CQC			UM20	21-MAY-91	LT	3.90	UGL				C
		SHSTB*71	STYR	T	0.00	CQC			UM20	21-MAY-91	LT	0.45	UGL				C
		SHSTB*71	T13DCP	T	0.00	CQC			UM20	21-MAY-91	LT	0.73	UGL				C
		SHSTB*71	TCLEA	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*71	TCLEE	T	0.00	CQC			UM20	21-MAY-91	LT	1.60	UGL				C
		SHSTB*71	TRCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*71	XYLEN	T	0.00	CQC			UM20	21-MAY-91	LT	0.79	UGL				C
		SHSTB*72	111TCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*72	112TCE	T	0.00	CQC			UM20	21-MAY-91	LT	1.30	UGL				C
		SHSTB*72	11DCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.47	UGL				C
		SHSTB*72	11DCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.69	UGL				C
		SHSTB*72	12DCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*72	12DCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*72	12DCLP	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*72	2CLEVE	T	0.00	CQC			UM20	21-MAY-91	LT	0.70	UGL				C
		SHSTB*72	ACET	T	0.00	CQC			UM20	21-MAY-91	LT	14.00	UGL				C
		SHSTB*72	ACROLN	T	0.00	CQC			UM20	21-MAY-91	ND	100.00	UGL	R			C
		SHSTB*72	ACRYLO	T	0.00	CQC			UM20	21-MAY-91	ND	100.00	UGL	R			C
		SHSTB*72	BRDCLM	T	0.00	CQC			UM20	21-MAY-91	LT	0.58	UGL				C
		SHSTB*72	C13DCP	T	0.00	CQC			UM20	21-MAY-91	LT	0.57	UGL				C
		SHSTB*72	C2AVE	T	0.00	CQC			UM20	21-MAY-91	LT	8.40	UGL				C
		SHSTB*72	C2H3CL	T	0.00	CQC			UM20	21-MAY-91	LT	2.70	UGL				C
		SHSTB*72	C2H5CL	T	0.00	CQC			UM20	21-MAY-91	LT	1.90	UGL				C
		SHSTB*72	C6H6	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*72	CCL3F	T	0.00	CQC			UM20	21-MAY-91	LT	1.40	UGL				C
		SHSTB*72	CCL4	T	0.00	CQC			UM20	21-MAY-91	LT	0.55	UGL				C
		SHSTB*72	CH2CL2	T	0.00	CQC			UM20	21-MAY-91	LT	2.20	UGL				C
		SHSTB*72	CH3BR	T	0.00	CQC			UM20	21-MAY-91	LT	5.70	UGL				C
		SHSTB*72	CH3CL	T	0.00	CQC			UM20	21-MAY-91	LT	3.40	UGL				C
[redacted]																	

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJN	SHSTB*72	CL2BZ	T	0.00	CQC			UM20	21-MAY-91	ND	10.00	UGL	R			C
		SHSTB*72	CLC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*72	CS2	T	0.00	CQC			UM20	21-MAY-91	LT	0.57	UGL				C
		SHSTB*72	DBRCLM	T	0.00	CQC			UM20	21-MAY-91	LT	0.68	UGL				C
		SHSTB*72	ETC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*72	MEC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*72	MEK	T	0.00	CQC			UM20	21-MAY-91	LT	6.50	UGL				C
		SHSTB*72	MIBK	T	0.00	CQC			UM20	21-MAY-91	LT	3.30	UGL				C
		SHSTB*72	MNBK	T	0.00	CQC			UM20	21-MAY-91	LT	3.90	UGL				C
		SHSTB*72	STYR	T	0.00	CQC			UM20	21-MAY-91	LT	0.45	UGL				C
		SHSTB*72	T13DCP	T	0.00	CQC			UM20	21-MAY-91	LT	0.73	UGL				C
		SHSTB*72	TCLEA	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*72	TCLEE	T	0.00	CQC			UM20	21-MAY-91	LT	1.60	UGL				C
		SHSTB*72	TRCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*72	XYLEN	T	0.00	CQC			UM20	21-MAY-91	LT	0.79	UGL				C
		SHSTB*73	111TCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*73	112TCE	T	0.00	CQC			UM20	21-MAY-91	LT	1.30	UGL				C
		SHSTB*73	11DCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.47	UGL				C
		SHSTB*73	11DCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.69	UGL				C
		SHSTB*73	12DCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*73	12DCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*73	12DCLP	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*73	2CLEVE	T	0.00	CQC			UM20	21-MAY-91	LT	0.70	UGL				C
		SHSTB*73	ACET	T	0.00	CQC			UM20	21-MAY-91	LT	14.00	UGL				C
		SHSTB*73	ACROLN	T	0.00	CQC			UM20	21-MAY-91	ND	100.00	UGL	R			C
		SHSTB*73	ACRYLO	T	0.00	CQC			UM20	21-MAY-91	ND	100.00	UGL	R			C
		SHSTB*73	BRDCLM	T	0.00	CQC			UM20	21-MAY-91	LT	0.58	UGL				C
		SHSTB*73	C13DCP	T	0.00	CQC			UM20	21-MAY-91	LT	0.57	UGL				C
		SHSTB*73	C2AVE	T	0.00	CQC			UM20	21-MAY-91	LT	8.40	UGL				C
		SHSTB*73	C2H3CL	T	0.00	CQC			UM20	21-MAY-91	LT	2.70	UGL				C
		SHSTB*73	C2H5CL	T	0.00	CQC			UM20	21-MAY-91	LT	1.90	UGL				C
		SHSTB*73	C6H6	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*73	CCL3F	T	0.00	CQC			UM20	21-MAY-91	LT	1.40	UGL				C
		SHSTB*73	CCL4	T	0.00	CQC			UM20	21-MAY-91	LT	0.55	UGL				C
		SHSTB*73	CH2CL2	T	0.00	CQC			UM20	21-MAY-91	LT	2.20	UGL				C
		SHSTB*73	CH3BR	T	0.00	CQC			UM20	21-MAY-91	LT	5.70	UGL				C
		SHSTB*73	CH3CL	T	0.00	CQC			UM20	21-MAY-91	LT	3.40	UGL				C
		SHSTB*73	CHBR3	T	0.00	CQC			UM20	21-MAY-91	LT	2.50	UGL				C
		SHSTB*73	CHCL3	T	0.00	CQC			UM20	21-MAY-91	LT	0.51	UGL				C
		SHSTB*73	CL2BZ	T	0.00	CQC			UM20	21-MAY-91	ND	10.00	UGL	R			C
		SHSTB*73	CLC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*73	CS2	T	0.00	CQC			UM20	21-MAY-91	LT	0.57	UGL				C
		SHSTB*73	DBRCLM	T	0.00	CQC			UM20	21-MAY-91	LT	0.68	UGL				C
		SHSTB*73	ETC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*73	MEC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*73	MEK	T	0.00	CQC			UM20	21-MAY-91	LT	6.50	UGL				C
		SHSTB*73	MIBK	T	0.00	CQC			UM20	21-MAY-91	LT	3.30	UGL				C
		SHSTB*73	MNBK	T	0.00	CQC			UM20	21-MAY-91	LT	3.90	UGL				C
		SHSTB*73	STYR	T	0.00	CQC			UM20	21-MAY-91	LT	0.45	UGL				C
		SHSTB*73	T13DCP	T	0.00	CQC			UM20	21-MAY-91	LT	0.73	UGL				C
		SHSTB*73	TCLEA	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJN	SHSTB*73	TCLEE	T	0.00	CQC			UM20	21-MAY-91	LT	1.60	UGL				C
		SHSTB*73	TRCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*73	XYLEN	T	0.00	CQC			UM20	21-MAY-91	LT	0.79	UGL				C
		SHSTB*74	111TCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*74	112TCE	T	0.00	CQC			UM20	21-MAY-91	LT	1.30	UGL				C
		SHSTB*74	11DCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.47	UGL				C
		SHSTB*74	11DCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.69	UGL				C
		SHSTB*74	12DCE	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*74	12DCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*74	12DCLP	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*74	2CLEVE	T	0.00	CQC			UM20	21-MAY-91	LT	0.70	UGL				C
		SHSTB*74	ACET	T	0.00	CQC			UM20	21-MAY-91	LT	14.00	UGL				C
		SHSTB*74	ACROLN	T	0.00	CQC			UM20	21-MAY-91	ND	100.00	UGL	R			C
		SHSTB*74	ACRYLO	T	0.00	CQC			UM20	21-MAY-91	ND	100.00	UGL	R			C
		SHSTB*74	BRDCLM	T	0.00	CQC			UM20	21-MAY-91	LT	0.58	UGL				C
		SHSTB*74	C13DCP	T	0.00	CQC			UM20	21-MAY-91	LT	0.57	UGL				C
		SHSTB*74	C2AVE	T	0.00	CQC			UM20	21-MAY-91	LT	8.40	UGL				C
		SHSTB*74	C2H3CL	T	0.00	CQC			UM20	21-MAY-91	LT	2.70	UGL				C
		SHSTB*74	C2H5CL	T	0.00	CQC			UM20	21-MAY-91	LT	1.90	UGL				C
		SHSTB*74	C6H6	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*74	CCL3F	T	0.00	CQC			UM20	21-MAY-91	LT	1.40	UGL				C
		SHSTB*74	CCL4	T	0.00	CQC			UM20	21-MAY-91	LT	0.55	UGL				C
		SHSTB*74	CH2CL2	T	0.00	CQC			UM20	21-MAY-91	LT	2.20	UGL				C
		SHSTB*74	CH3BR	T	0.00	CQC			UM20	21-MAY-91	LT	5.70	UGL				C
		SHSTB*74	CH3CL	T	0.00	CQC			UM20	21-MAY-91	LT	3.40	UGL				C
		SHSTB*74	CHBR3	T	0.00	CQC			UM20	21-MAY-91	LT	2.50	UGL				C
		SHSTB*74	CHCL3	T	0.00	CQC			UM20	21-MAY-91	LT	0.51	UGL				C
		SHSTB*74	CL2BZ	T	0.00	CQC			UM20	21-MAY-91	ND	10.00	UGL	R			C
		SHSTB*74	CLC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*74	CS2	T	0.00	CQC			UM20	21-MAY-91	LT	0.57	UGL				C
		SHSTB*74	DBRCLM	T	0.00	CQC			UM20	21-MAY-91	LT	0.68	UGL				C
		SHSTB*74	ETC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*74	MEC6H5	T	0.00	CQC			UM20	21-MAY-91	LT	0.49	UGL				C
		SHSTB*74	MEK	T	0.00	CQC			UM20	21-MAY-91	LT	6.50	UGL				C
		SHSTB*74	MIBK	T	0.00	CQC			UM20	21-MAY-91	LT	3.30	UGL				C
		SHSTB*74	MNBK	T	0.00	CQC			UM20	21-MAY-91	LT	3.90	UGL				C
		SHSTB*74	STYR	T	0.00	CQC			UM20	21-MAY-91	LT	0.45	UGL				C
		SHSTB*74	T13DCP	T	0.00	CQC			UM20	21-MAY-91	LT	0.73	UGL				C
		SHSTB*74	TCLEA	T	0.00	CQC			UM20	21-MAY-91	LT	0.50	UGL				C
		SHSTB*74	TCLEE	T	0.00	CQC			UM20	21-MAY-91	LT	1.60	UGL				C
		SHSTB*74	TRCLE	T	0.00	CQC			UM20	21-MAY-91	LT	0.48	UGL				C
		SHSTB*74	XYLEN	T	0.00	CQC			UM20	21-MAY-91	LT	0.79	UGL				C
ES	VJQ	SHSTB*75	111TCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*75	112TCE	T	0.00	CQC			UM20	26-MAY-91	LT	1.30	UGL				C
		SHSTB*75	11DCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.47	UGL				C
		SHSTB*75	11DCLE	T	0.00	CQC			UM20	26-MAY-91	LT	0.69	UGL				C
		SHSTB*75	12DCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C
[redacted]		SHSTB*75	12DCLE	T	0.00	CQC	[redacted]	[redacted]	UM20	26-MAY-91	LT	0.50	UGL	[redacted]	[redacted]	[redacted]	C
		SHSTB*75	12DCLP	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJQ	SHSTB*75	2CLEVE	T	0.00	CQC			UM20	26-MAY-91	LT	0.70	UGL				C
		SHSTB*75	ACET	T	0.00	CQC			UM20	26-MAY-91	LT	14.00	UGL				C
		SHSTB*75	ACROLN	T	0.00	CQC			UM20	26-MAY-91	ND	100.00	UGL	R			C
		SHSTB*75	ACRYLO	T	0.00	CQC			UM20	26-MAY-91	ND	100.00	UGL	R			C
		SHSTB*75	BRDCLM	T	0.00	CQC			UM20	26-MAY-91	LT	0.58	UGL				C
		SHSTB*75	C13DCP	T	0.00	CQC			UM20	26-MAY-91	LT	0.57	UGL				C
		SHSTB*75	C2AVE	T	0.00	CQC			UM20	26-MAY-91	LT	8.40	UGL				C
		SHSTB*75	C2H3CL	T	0.00	CQC			UM20	26-MAY-91	LT	2.70	UGL				C
		SHSTB*75	C2H5CL	T	0.00	CQC			UM20	26-MAY-91	LT	1.90	UGL				C
		SHSTB*75	C6H6	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*75	CCL3F	T	0.00	CQC			UM20	26-MAY-91	LT	1.40	UGL				C
		SHSTB*75	CCL4	T	0.00	CQC			UM20	26-MAY-91	LT	0.55	UGL				C
		SHSTB*75	CH2CL2	T	0.00	CQC			UM20	26-MAY-91	LT	2.20	UGL				C
		SHSTB*75	CH3BR	T	0.00	CQC			UM20	26-MAY-91	LT	5.70	UGL				C
		SHSTB*75	CH3CL	T	0.00	CQC			UM20	26-MAY-91	LT	3.40	UGL				C
		SHSTB*75	CHBR3	T	0.00	CQC			UM20	26-MAY-91	LT	2.50	UGL				C
		SHSTB*75	CHCL3	T	0.00	CQC			UM20	26-MAY-91	LT	0.51	UGL				C
		SHSTB*75	CL2BZ	T	0.00	CQC			UM20	26-MAY-91	ND	10.00	UGL	R			C
		SHSTB*75	CLC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*75	CS2	T	0.00	CQC			UM20	26-MAY-91	LT	0.57	UGL				C
		SHSTB*75	DBRCLM	T	0.00	CQC			UM20	26-MAY-91	LT	0.68	UGL				C
		SHSTB*75	ETC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*75	MEC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C
		SHSTB*75	MEK	T	0.00	CQC			UM20	26-MAY-91	LT	6.50	UGL				C
		SHSTB*75	MIBK	T	0.00	CQC			UM20	26-MAY-91	LT	3.30	UGL				C
		SHSTB*75	MNBK	T	0.00	CQC			UM20	26-MAY-91	LT	3.90	UGL				C
		SHSTB*75	STYR	T	0.00	CQC			UM20	26-MAY-91	LT	0.45	UGL				C
		SHSTB*75	T13DCP	T	0.00	CQC			UM20	26-MAY-91	LT	0.73	UGL				C
		SHSTB*75	TCLEA	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*75	TCLEE	T	0.00	CQC			UM20	26-MAY-91	LT	1.60	UGL				C
		SHSTB*75	TRCLE	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*75	XYLEN	T	0.00	CQC			UM20	26-MAY-91	LT	0.79	UGL				C
		SHSTB*76	111TCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*76	112TCE	T	0.00	CQC			UM20	26-MAY-91	LT	1.30	UGL				C
		SHSTB*76	11DCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.47	UGL				C
		SHSTB*76	11DCLE	T	0.00	CQC			UM20	26-MAY-91	LT	0.69	UGL				C
		SHSTB*76	12DCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C
		SHSTB*76	12DCLE	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*76	12DCLP	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C
		SHSTB*76	2CLEVE	T	0.00	CQC			UM20	26-MAY-91	LT	0.70	UGL				C
		SHSTB*76	ACET	T	0.00	CQC			UM20	26-MAY-91	LT	14.00	UGL				C
		SHSTB*76	ACROLN	T	0.00	CQC			UM20	26-MAY-91	ND	100.00	UGL	R			C
		SHSTB*76	ACRYLO	T	0.00	CQC			UM20	26-MAY-91	ND	100.00	UGL	R			C
		SHSTB*76	BRDCLM	T	0.00	CQC			UM20	26-MAY-91	LT	0.58	UGL				C
		SHSTB*76	C13DCP	T	0.00	CQC			UM20	26-MAY-91	LT	0.57	UGL				C
		SHSTB*76	C2AVE	T	0.00	CQC			UM20	26-MAY-91	LT	8.40	UGL				C
		SHSTB*76	C2H3CL	T	0.00	CQC			UM20	26-MAY-91	LT	2.70	UGL				C
		SHSTB*76	C2H5CL	T	0.00	CQC			UM20	26-MAY-91	LT	1.90	UGL				C
		SHSTB*76	C6H6	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*76	CCL3F	T	0.00	CQC			UM20	26-MAY-91	LT	1.40	UGL				C
		SHSTB*76	CCL4	T	0.00	CQC			UM20	26-MAY-91	LT	0.55	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJQ	SHSTB*76	CH2CL2	T	0.00	CQC			UM20	26-MAY-91	LT	2.20	UGL				C
		SHSTB*76	CH3BR	T	0.00	CQC			UM20	26-MAY-91	LT	5.70	UGL				C
		SHSTB*76	CH3CL	T	0.00	CQC			UM20	26-MAY-91	LT	3.40	UGL				C
		SHSTB*76	CHBR3	T	0.00	CQC			UM20	26-MAY-91	LT	2.50	UGL				C
		SHSTB*76	CHCL3	T	0.00	CQC			UM20	26-MAY-91	LT	0.51	UGL				C
		SHSTB*76	CL2BZ	T	0.00	CQC			UM20	26-MAY-91	ND	10.00	UGL	R			C
		SHSTB*76	CLC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*76	CS2	T	0.00	CQC			UM20	26-MAY-91	LT	0.57	UGL				C
		SHSTB*76	DBRCLM	T	0.00	CQC			UM20	26-MAY-91	LT	0.68	UGL				C
		SHSTB*76	ETC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*76	MEC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C
		SHSTB*76	MEK	T	0.00	CQC			UM20	26-MAY-91	LT	6.50	UGL				C
		SHSTB*76	MIBK	T	0.00	CQC			UM20	26-MAY-91	LT	3.30	UGL				C
		SHSTB*76	MNBK	T	0.00	CQC			UM20	26-MAY-91	LT	3.90	UGL				C
		SHSTB*76	STYR	T	0.00	CQC			UM20	26-MAY-91	LT	0.45	UGL				C
		SHSTB*76	T13DCP	T	0.00	CQC			UM20	26-MAY-91	LT	0.73	UGL				C
		SHSTB*76	TCLEA	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*76	TCLEE	T	0.00	CQC			UM20	26-MAY-91	LT	1.60	UGL				C
		SHSTB*76	TRCLE	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*76	XYLEN	T	0.00	CQC			UM20	26-MAY-91	LT	0.79	UGL				C
		SHSTB*77	111TCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*77	112TCE	T	0.00	CQC			UM20	26-MAY-91	LT	1.30	UGL				C
		SHSTB*77	11DCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.47	UGL				C
		SHSTB*77	11DCLE	T	0.00	CQC			UM20	26-MAY-91	LT	0.69	UGL				C
		SHSTB*77	12DCE	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C
		SHSTB*77	12DCLE	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*77	12DCLP	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C
		SHSTB*77	2CLEVE	T	0.00	CQC			UM20	26-MAY-91	LT	0.70	UGL				C
		SHSTB*77	ACET	T	0.00	CQC			UM20	26-MAY-91	LT	14.00	UGL				C
		SHSTB*77	ACROLN	T	0.00	CQC			UM20	26-MAY-91	ND	100.00	UGL	R			C
		SHSTB*77	ACRYLO	T	0.00	CQC			UM20	26-MAY-91	ND	100.00	UGL	R			C
		SHSTB*77	BRDCLM	T	0.00	CQC			UM20	26-MAY-91	LT	0.58	UGL				C
		SHSTB*77	C13DCP	T	0.00	CQC			UM20	26-MAY-91	LT	0.57	UGL				C
		SHSTB*77	C2AVE	T	0.00	CQC			UM20	26-MAY-91	LT	8.40	UGL				C
		SHSTB*77	C2H3CL	T	0.00	CQC			UM20	26-MAY-91	LT	2.70	UGL				C
		SHSTB*77	C2H5CL	T	0.00	CQC			UM20	26-MAY-91	LT	1.90	UGL				C
		SHSTB*77	C6H6	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*77	CCL3F	T	0.00	CQC			UM20	26-MAY-91	LT	1.40	UGL				C
		SHSTB*77	CCL4	T	0.00	CQC			UM20	26-MAY-91	LT	0.55	UGL				C
		SHSTB*77	CH2CL2	T	0.00	CQC			UM20	26-MAY-91	LT	2.20	UGL				C
		SHSTB*77	CH3BR	T	0.00	CQC			UM20	26-MAY-91	LT	5.70	UGL				C
		SHSTB*77	CH3CL	T	0.00	CQC			UM20	26-MAY-91	LT	3.40	UGL				C
		SHSTB*77	CHBR3	T	0.00	CQC			UM20	26-MAY-91	LT	2.50	UGL				C
		SHSTB*77	CHCL3	T	0.00	CQC			UM20	26-MAY-91	LT	0.51	UGL				C
		SHSTB*77	CL2BZ	T	0.00	CQC			UM20	26-MAY-91	ND	10.00	UGL	R			C
		SHSTB*77	CLC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*77	CS2	T	0.00	CQC			UM20	26-MAY-91	LT	0.57	UGL				C
		SHSTB*77	DBRCLM	T	0.00	CQC			UM20	26-MAY-91	LT	0.68	UGL				C
		SHSTB*77	ETC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*77	MEC6H5	T	0.00	CQC			UM20	26-MAY-91	LT	0.49	UGL				C
		SHSTB*77	MEK	T	0.00	CQC			UM20	26-MAY-91	LT	6.50	UGL				C

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 02-MAY-91 to 26-MAY-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	VJQ	SHSTB*77	MIBK	T	0.00	CQC			UM20	26-MAY-91	LT	3.30	UGL				C
		SHSTB*77	MNBK	T	0.00	CQC			UM20	26-MAY-91	LT	3.90	UGL				C
		SHSTB*77	STYR	T	0.00	CQC			UM20	26-MAY-91	LT	0.45	UGL				C
		SHSTB*77	T13DCP	T	0.00	CQC			UM20	26-MAY-91	LT	0.73	UGL				C
		SHSTB*77	TCLEA	T	0.00	CQC			UM20	26-MAY-91	LT	0.50	UGL				C
		SHSTB*77	TCLEE	T	0.00	CQC			UM20	26-MAY-91	LT	1.60	UGL				C
		SHSTB*77	TRCLE	T	0.00	CQC			UM20	26-MAY-91	LT	0.48	UGL				C
		SHSTB*77	XYLEN	T	0.00	CQC			UM20	26-MAY-91	LT	0.79	UGL				C

** End of Report - 663 Records Found **

06-OCT-97 09:53:56

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 28-JUL-91 to 28-JUL-91
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	WAN	SHSTB*81	111TCE	T	0.00	CQC			UM20	28-JUL-91	LT	0.50	UGL				C
		SHSTB*81	112TCE	T	0.00	CQC			UM20	28-JUL-91	LT	1.30	UGL				C
		SHSTB*81	11DCE	T	0.00	CQC			UM20	28-JUL-91	LT	0.47	UGL				C
		SHSTB*81	11DCLE	T	0.00	CQC			UM20	28-JUL-91	LT	0.69	UGL				C
		SHSTB*81	12DCE	T	0.00	CQC			UM20	28-JUL-91	LT	0.49	UGL				C
		SHSTB*81	12DCLE	T	0.00	CQC			UM20	28-JUL-91	LT	0.50	UGL				C
		SHSTB*81	12DCLP	T	0.00	CQC			UM20	28-JUL-91	LT	0.49	UGL				C
		SHSTB*81	2CLEVE	T	0.00	CQC			UM20	28-JUL-91	LT	0.70	UGL				C
		SHSTB*81	ACET	T	0.00	CQC			UM20	28-JUL-91	LT	14.00	UGL				C
		SHSTB*81	ACROLN	T	0.00	CQC			UM20	28-JUL-91	ND	100.00	UGL	R			C
		SHSTB*81	ACRYLO	T	0.00	CQC			UM20	28-JUL-91	ND	100.00	UGL	R			C
		SHSTB*81	BRDCLM	T	0.00	CQC			UM20	28-JUL-91	LT	0.58	UGL				C
		SHSTB*81	C13DCP	T	0.00	CQC			UM20	28-JUL-91	LT	0.57	UGL				C
		SHSTB*81	C2AVE	T	0.00	CQC			UM20	28-JUL-91	LT	8.40	UGL				C
		SHSTB*81	C2H3CL	T	0.00	CQC			UM20	28-JUL-91	LT	2.70	UGL				C
		SHSTB*81	C2H5CL	T	0.00	CQC			UM20	28-JUL-91	LT	1.90	UGL				C
		SHSTB*81	C6H6	T	0.00	CQC			UM20	28-JUL-91	LT	0.50	UGL				C
		SHSTB*81	CCL3F	T	0.00	CQC			UM20	28-JUL-91	LT	1.40	UGL				C
		SHSTB*81	CCL4	T	0.00	CQC			UM20	28-JUL-91	LT	0.55	UGL				C
		SHSTB*81	CH2CL2	T	0.00	CQC			UM20	28-JUL-91	LT	2.20	UGL				C
		SHSTB*81	CH3BR	T	0.00	CQC			UM20	28-JUL-91	LT	5.70	UGL				C
		SHSTB*81	CH3CL	T	0.00	CQC			UM20	28-JUL-91	LT	3.40	UGL				C
		SHSTB*81	CHBR3	T	0.00	CQC			UM20	28-JUL-91	LT	2.50	UGL				C
		SHSTB*81	CHCL3	T	0.00	CQC			UM20	28-JUL-91	LT	0.51	UGL				C
		SHSTB*81	CL2BZ	T	0.00	CQC			UM20	28-JUL-91	ND	10.00	UGL	R			C
		SHSTB*81	CLC6H5	T	0.00	CQC			UM20	28-JUL-91	LT	0.48	UGL				C
		SHSTB*81	CS2	T	0.00	CQC			UM20	28-JUL-91	LT	0.57	UGL				C
		SHSTB*81	DBRCLM	T	0.00	CQC			UM20	28-JUL-91	LT	0.68	UGL				C
		SHSTB*81	ETC6H5	T	0.00	CQC			UM20	28-JUL-91	LT	0.48	UGL				C
		SHSTB*81	MEC6H5	T	0.00	CQC			UM20	28-JUL-91	LT	0.49	UGL				C
		SHSTB*81	MEK	T	0.00	CQC			UM20	28-JUL-91	LT	6.50	UGL				C
		SHSTB*81	MIBK	T	0.00	CQC			UM20	28-JUL-91	LT	3.30	UGL				C
		SHSTB*81	MNBK	T	0.00	CQC			UM20	28-JUL-91	LT	3.90	UGL				C
		SHSTB*81	STYR	T	0.00	CQC			UM20	28-JUL-91	LT	0.45	UGL				C
		SHSTB*81	T13DCP	T	0.00	CQC			UM20	28-JUL-91	LT	0.73	UGL				C
		SHSTB*81	TCLEA	T	0.00	CQC			UM20	28-JUL-91	LT	0.50	UGL				C
		SHSTB*81	TCLEE	T	0.00	CQC			UM20	28-JUL-91	LT	1.60	UGL				C
		SHSTB*81	TRCLE	T	0.00	CQC			UM20	28-JUL-91	LT	0.48	UGL				C
		SHSTB*81	UNK047	T	0.00	CQC			UM20	28-JUL-91		7.00	UGL	S			C
		SHSTB*81	XYLEN	T	0.00	CQC			UM20	28-JUL-91	LT	0.79	UGL				C

** End of Report - 40 Records Found **

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEAB	SNP2TB*5	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*5	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95		10.00	UGL	JP			BEI
		SNP2TB*5	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*5	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*5	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*5	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*5	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*5	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*5	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*5	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*5	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEAB	SNP2TB*6	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*6	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*6	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*8	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
[redacted]																	
		SNP2TB*8	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEAB	SNP2TB*8	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*8	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	16-NOV-95	LT	10.00	UGL				BEI
ES	NEAC	SNGW*213	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
		SNGW*213	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	2.00	UGL				BEI
		SNGW*213	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	05-APR-96	LT	10.00	UGL				BEI
ES	NEBC	SNGW2*74	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*74	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEBC	SNGW2*74	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*74	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*74	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*74	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*74	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*74	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*74	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*74	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*74	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
[redacted]																	

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEBC	SNGW2*75	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
		SNGW2*75	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	2.00	UGL				BEI
		SNGW2*75	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	25-APR-96	LT	10.00	UGL				BEI
ES	NECB	SNP2TB*9	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*9	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*9	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	20-NOV-95	LT	10.00	UGL				BEI
ES	NECC	SNGW2*76	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NECC	SNGW2*76	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*76	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*76	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NECC	SNGW2*78	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*78	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*78	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*81	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*81	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NECC	SNGW2*81	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
ES	NEDC	SNGW2*80	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
		SNGW2*80	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	2.00	UGL				BEI
		SNGW2*80	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-APR-96	LT	10.00	UGL				BEI
ES	NEEC	NGW2*114	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*114	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
[redacted]																	
			C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEEC	NGW2*114	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*114	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*114	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*114	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*114	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*114	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*114	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*114	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*114	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEEC	NGW2*115	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*115	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*115	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*120	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*120	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEEC	NGW2*122	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*122	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*122	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEEC	NGW2*123	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*123	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*123	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*77	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*77	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
[redacted]																	

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEEC	SNGW2*79	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		SNGW2*79	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		SNGW2*79	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
ES	NEFB	SNGW*36	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEFB	SNGW*36	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*36	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*36	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	10.00	UGL				BEI
		SNGW*37	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
		SNGW*37	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	01-DEC-95	LT	2.00	UGL				BEI
[redacted]		[redacted]W*37	[redacted]LEN	[redacted]	[redacted].00	[redacted]	TRIP	[redacted]	[redacted]VMS2/[redacted]	[redacted]-DEC[redacted]	LT	10.00	UGL	[redacted]	[redacted]	[redacted]	BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEFB																
ES	NEFC	NGW2*116	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*116	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*116	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEFC	NGW2*119	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*119	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*119	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*121	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*121	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*121	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*121	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*121	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*121	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*121	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*121	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
[redacted]																	

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEFC	NGW2*121	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*121	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	111TCE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	112TCE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	11DCE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	11DCLE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	12DCE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	12DCLE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	12DCLP	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	2CLEVE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	ACET	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	BRDCLM	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	C13DCP	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	C2AVE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	C2H3CL	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	C2H5CL	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	C6H6	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	CCL4	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	CH2CL2	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	CH3BR	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	CH3CL	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	CHBR3	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	CHCL3	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	CLC6H5	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	CS2	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	DBRCLM	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	ETC6H5	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	MEC6H5	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	MEK	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	MIBK	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	MNBK	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*124	STYR	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	T13DCP	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	TCLEA	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	TCLEE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	TRCLE	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*124	TXYLEN	T	0.00	CGW	TRIP	TRIP1695	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	111TCE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	112TCE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	11DCE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	11DCLE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	12DCE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	12DCLE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	12DCLP	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	2CLEVE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	ACET	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	BRDCLM	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	C13DCP	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEFC	NGW2*125	C2AVE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	C2H3CL	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	C2H5CL	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	C6H6	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	CCL4	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	CH2CL2	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	CH3BR	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	CH3CL	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	CHBR3	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	CHCL3	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	CLC6H5	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	CS2	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	DBRCLM	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	ETC6H5	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	MEC6H5	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	MEK	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	MIBK	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	MNBK	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*125	STYR	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	T13DCP	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	TCLEA	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	TCLEE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	TRCLE	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*125	TXYLEN	T	0.00	CGW	TRIP	TRIP0870	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	111TCE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	112TCE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	11DCE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	11DCLE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	12DCE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	12DCLE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	12DCLP	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	2CLEVE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	ACET	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	BRDCLM	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	C13DCP	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	C2AVE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	C2H3CL	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	C2H5CL	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	C6H6	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	CCL4	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	CH2CL2	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	CH3BR	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	CH3CL	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	CHBR3	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	CHCL3	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	CLC6H5	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	CS2	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	DBRCLM	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	ETC6H5	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	MEC6H5	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
[redacted]																	

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEFC	NGW2*126	MIBK	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	MNBK	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*126	STYR	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	T13DCP	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	TCLEA	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	TCLEE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	TRCLE	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*126	TXYLEN	T	0.00	CGW	TRIP	TRIP1075	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	111TCE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	112TCE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	11DCE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	11DCLE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	12DCE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	12DCLE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	12DCLP	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	2CLEVE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	ACET	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	BRDCLM	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	C13DCP	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	C2AVE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	C2H3CL	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	C2H5CL	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	C6H6	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	CCL4	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	CH2CL2	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	CH3BR	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	CH3CL	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	CHBR3	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	CHCL3	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	CLC6H5	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	CS2	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	DBRCLM	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	ETC6H5	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	MEC6H5	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	MEK	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	MIBK	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	MNBK	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*127	STYR	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	T13DCP	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	TCLEA	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	TCLEE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	TRCLE	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*127	TXYLEN	T	0.00	CGW	TRIP	TRIP0435	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	111TCE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	112TCE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	11DCE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	11DCLE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	12DCE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	12DCLE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	12DCLP	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	2CLEVE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEFC	NGW2*128	ACET	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	BRDCLM	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	C13DCP	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	C2AVE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	C2H3CL	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	C2H5CL	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	C6H6	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	CCL4	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	CH2CL2	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	CH3BR	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	CH3CL	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	CHBR3	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	CHCL3	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	CLC6H5	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	CS2	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	DBRCLM	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	ETC6H5	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	MEC6H5	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	MEK	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	MIBK	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	MNBK	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*128	STYR	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	T13DCP	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	TCLEA	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	TCLEE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	TRCLE	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*128	TXYLEN	T	0.00	CGW	TRIP	TRIP1343	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	111TCE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	112TCE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	11DCE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	11DCLE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	12DCE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	12DCLE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	12DCLP	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	2CLEVE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	ACET	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	BRDCLM	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	C13DCP	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	C2AVE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	C2H3CL	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	C2H5CL	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	C6H6	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	CCL4	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	CH2CL2	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	CH3BR	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	CH3CL	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	CHBR3	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	CHCL3	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	CLC6H5	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	CS2	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		NGW2*129	DBRCLM	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEFC	NGW2*129	ETC6H5	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	MEC6H5	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	MEK	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	MIBK	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	MNBK	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
		NGW2*129	STYR	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	T13DCP	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	TCLEA	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	TCLEE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	TRCLE	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	2.00	UGL				BEI
		NGW2*129	TXYLEN	T	0.00	CGW	TRIP	TRIP0800	VMS2/W	29-APR-96	LT	10.00	UGL				BEI
ES	NEGC	NGW2*117	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*117	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*117	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEGC	NGW2*118	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
		NGW2*118	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	2.00	UGL				BEI
		NGW2*118	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	30-APR-96	LT	10.00	UGL				BEI
ES	NEHB	SNGW*39	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*39	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*39	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*39	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*39	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
[redacted]																	

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEHB	SNGW*39	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*39	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*39	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*39	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
		SNGW*39	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	2.00	UGL				BEI
		SNGW*39	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	06-DEC-95	LT	10.00	UGL				BEI
ES	NEHC	NGW2*133	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*133	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEHC	NGW2*133	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*133	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
		NGW2*134	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	2.00	UGL				BEI
		NGW2*134	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	04-MAY-96	LT	10.00	UGL				BEI
ES	NEIB	SNGW*38	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*38	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
[redacted]		[redacted]*38	[redacted]LM	[redacted]	[redacted]00	[redacted]	[redacted]RIP	[redacted]	[redacted]S2/W	[redacted]DEC-	[redacted]	2.00	[redacted]	[redacted]	[redacted]	[redacted]	BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEIB	SNGW*38	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*38	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*38	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*38	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*38	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*38	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*38	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
		SNGW*38	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	2.00	UGL				BEI
		SNGW*38	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-DEC-95	LT	10.00	UGL				BEI
ES	NEIC	NGW2*130	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEIC	NGW2*130	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*130	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*130	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*137	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*137	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEIC	NGW2*139	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
		NGW2*139	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	2.00	UGL				BEI
		NGW2*139	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	07-MAY-96	LT	10.00	UGL				BEI
ES	NEKC	NGW2*132	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEKC	NGW2*132	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*132	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*132	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	10.00	UGL				BEI
		NGW2*136	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
		NGW2*136	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	09-MAY-96	LT	2.00	UGL				BEI
[redacted]																	

06-OCT-97 09:11:15

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEKC																
ES	NEMB	SNGW*95	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*95	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*95	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEMB	SNGW*96	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
		SNGW*96	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	2.00	UGL				BEI
		SNGW*96	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	19-DEC-95	LT	10.00	UGL				BEI
ES	NEMC	NGW2*135	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
		NGW2*135	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
		NGW2*135	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
		NGW2*135	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
		NGW2*135	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
		NGW2*135	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
		NGW2*135	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEMC	NGW2*135	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
		NGW2*135	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	2.00	UGL				BEI
		NGW2*135	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	15-MAY-96	LT	10.00	UGL				BEI
ES	NEOB	SNGW*94	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	CHCL3	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
		SNGW*94	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	2.00	UGL				BEI
		SNGW*94	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	21-DEC-95	LT	10.00	UGL				BEI
ES	NESB	SNGW*150	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NESB	SNGW*150	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGW*150	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGW*150	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	111TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	112TCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	11DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	11DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	12DCE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	12DCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	12DCLP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	2CLEVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	ACET	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	BRDCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	C13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	C2AVE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	C2H3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	C2H5CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	C6H6	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	CCL4	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	CH2CL2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	CH3BR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	CH3CL	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	CHBR3	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
[redacted]		[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NESB	SNGWF*51	CLC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	CS2	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	DBRCLM	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	ETC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	MEC6H5	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	MEK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	MIBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	MNBK	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
		SNGWF*51	STYR	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	T13DCP	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	TCLEA	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	TCLEE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	TRCLE	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	2.00	UGL				BEI
		SNGWF*51	TXYLEN	T	0.00	CGW	TRIP	TRIP	VMS2/W	26-JAN-96	LT	10.00	UGL				BEI
ES	NEUB	SNRW*4	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI
		SNRW*4	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	2.00	UGL				BEI
		SNRW*4	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	27-FEB-96	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEUB																
ES	NEVB	NP2SW*50	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		NP2SW*50	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		NP2SW*50	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
[redacted]		[redacted]TB*7	[redacted]CL	[redacted]	[redacted]00	C[redacted]	RIP	[redacted]	[redacted]S2/W	[redacted]-FEB-96	[redacted]	10.00	UGL	[redacted]	[redacted]	[redacted]	BEI[redacted]

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEVB	SNP2TB*7	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
		SNP2TB*7	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	2.00	UGL				BEI
		SNP2TB*7	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	29-FEB-96	LT	10.00	UGL				BEI
ES	NEWA	SNP2TB*1	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*1	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95		11.00	UGL				BEI
		SNP2TB*1	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*1	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*1	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*1	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*1	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*1	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
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Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Measurement Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEWA	SNP2TB*1	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*1	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*1	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*2	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*2	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*3	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
[redacted]																	
		[redacted]															BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEWA	SNP2TB*3	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*3	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*3	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*3	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*3	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*3	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*3	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
		SNP2TB*3	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	2.00	UGL				BEI
		SNP2TB*3	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	30-OCT-95	LT	10.00	UGL				BEI
ES	NEXA	SNP2TB*4	111TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	112TCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	11DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	11DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	12DCE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	12DCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	12DCLP	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	2CLEVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	ACET	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*4	BRDCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*4	C13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	C2AVE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	C2H3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*4	C2H5CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	C6H6	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*4	CCL4	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	CH2CL2	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	CH3BR	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*4	CH3CL	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	CHBR3	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	CHCL3	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	CLC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	CS2	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI

Chemical Quality Control Report
Installation: Fort Sheridan, IL
Analysis Date Range: 30-OCT-95 to 15-MAY-96
Non-Detected Compounds are included

Lab	Lot	Field Sample #	Analyte	QC Type	QC Spike	Media Type	Site Type	Site ID	Meth/ Matrix	Analysis Date	Measurement Bool	Measurement Value	Unit	Flag Codes	Data Quals	EPA Data Quals	Prog
ES	NEXA	SNP2TB*4	DBRCLM	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	ETC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	MEC6H5	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	MEK	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*4	MIBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*4	MNBK	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI
		SNP2TB*4	STYR	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	T13DCP	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	TCLEA	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	TCLEE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	TRCLE	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	2.00	UGL				BEI
		SNP2TB*4	TXYLEN	T	0.00	CSW	TRIP	TRIP	VMS2/W	03-NOV-95	LT	10.00	UGL				BEI

** End of Report - 1855 Records Found **